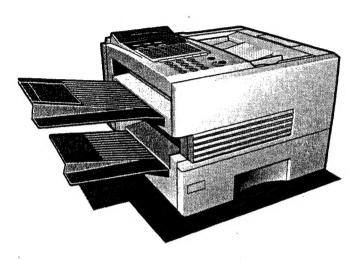
Order Number: MGCS990301C0

(Standard Version)

Service Manual

UF-885 / 895



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attemption service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic[®]

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1 General Description

1.1 Overview

This section covers the features and specifications of the plain paper facsimile transceiver "Panasonic UF-885/895". This fax machine can transmit and receive on the Public Switched Telephone Network (PSTN) in modes conforming to ITU-T / CCITT Group 3 recommendations.

1.2 General Features and Functions

1. Laser Printing

Clear picture quality is obtained by employing a Laser printing method on plain paper. The machine can print onto A4, Letter or Legal size paper.

2. Quick Scan

Quick Scan speeds the fax process by scanning and storing documents into memory at a rate of approximately 1 second* per page. This means that you no longer have to wait around until a transmission is completed before retrieving your originals. (* UF-885 : 2.8 seconds, based on ITU-T Image No.1 Test Chart at Standard Resolution. The Scanning speed applies only to the feeding process from the leading to the lagging edge of a single page test chart. The time it takes to store the document into memory is not applied for this definition)

3. Easy Maintenance

This laser printing mechanism only requires changing the toner cartridge, housing the drum, developer and toner.

Unlike other machines with removable EPROM (Erasable Programmable ROM), this machine is equipped with an F-ROM (Flash ROM). F-ROM offers the flexibility of quick and easy firmware updates, creation of a master firmware card, backup and restore of firmware and machine parameters.

4. Batch Transmission

The UF-885/895 permits accumulation of different documents for the same destination(s) to be transmitted in a single phone call.

5. Panasonic Super Smoothing

The machine incorporates a new sophisticated image processing technology to enhance print quality of ordinary received fax images by smoothing the curved edges of the character.

6. B4 size Scanning

B4 size is the maximum document width that can be scanned and transmitted.

7. Automatic Document Feeder

An Automatic Document Feeder feeds originals from the document tray automatically, starting with the bottom page. Capacity: 50 documents of average thickness and of the same size.

8. Speedy Transmission

The use of JBIG Coding with ECM achieves faster transmissions. Short Protocol reduces hand-shake time by shortening Phase B and D.

9. Error Correction Mode (ECM)

An Error Correction Mode, which conforms to ITU-T/CCITT Recommendations, allows error-free data transmissions. ECM with MMR or JBIG Coding also conforms to ITU-T/CCITT Recommendations.

10. Automatic Dialing Function

Up to 200 stations can be easily dialed by One-Touch Dialing or Abbreviated Dialing Function. Any other stations can be dialed directly from the keypad by entering the full telephone number (UF-895: up to 70 stations, UF-885: up to 3≥ stations).

11. Memory Transmission

The contents of a document can be stored into the document memory first, then transmitted from memory. Opeat or attendance until transmission ends is not necessary.

12. Multi-station Transmission

Using the document memory, the document can be transmitted to multiple destinations.

13. Multi-file Transmission

It is possible to store multiple documents, each of which could be transmitted to different destinations, into the document memory. Then the unit will transmit them sequentially (max. number of files: 30 files [UF-885], 70 files [UF-895]).

14. Deferred Communication

The built-in 24-hour timers allow the operator to set deferred transmissions or deferred polling. Using the document memory, documents can also be transmitted to multiple stations.

15. Substitute Reception

The contents of a document will be received into the document memory if the recording paper or toner runs out, or a recording paper jam occurs during reception. The stored documents can be printed after replacing the recording paper or toner cartridge or correcting a paper jam.

16. Multiple Operation

Multiple Access operations can store documents and their destinations even during reception or memory transmission. It can also receive during document storage.

17. Halftone (Photo)

For transmission or copying, this function ensures high quality reproduction of gray-shaded or photographic documents. This machine uses 64 levels of error diffusion to create halftones with Quality mode.

18. Copy Function

The Copy function allows the machine to be used as a copier. Using the document memory, up to 99 copies can be made of a single original.

19. 100 Transaction Journal

The 100 Transaction Journal provides transaction information - number of pages transmitted or received, start date and time, communication results, identification, etc. It is automatically printed after every 100 transactions, or it can be printed manually at anytime.

20. Latest Individual Transmission Journal

The latest Individual Transmission Journal provides information on the last transmission - number of pages transmitted, start date and time, communication results, identification, etc. It can be printed manually at anytime after communications.

21. Communication Journal

A communication journal is a result report of a communication which can be printed automatically after communication is completed. Printout conditions can be selected for each communication to 1) not print, 2) always print, or 3) print when communication has failed.

22. Multi-purpose LCD Display

The 20 x 2 Alphanumeric LCD display shows the operation mode, date and time, remote ID number, and pages transmitted or received. In case of an error, the LCD display shows an information code and error message indicating the exact cause of trouble.

23. Verification Stamp

The Verification Stamp is automatically stamped on the original document when the document is transmitted or stored in memory successfully. The "X" mark appears at the bottom of each page.

24. Password Transmission

A password transmitted from the other party is checked to prevent the transmission of documents to an unauthorized station.

25. Password Reception

A password transmitted from the other party is checked to prevent the reception of documents by an unauthorized station. The reception of junk mail, etc., is preventable.

26. Access Code

The Access Code can be registered into the machine to prevent operation by an unauthorized user.

27. Selective Reception

To prevent unwanted faxes from being received, the machine compares the ID Number of the transmitting machine with the telephone number stored in the built-in automatic telephone dialer.

28. Receive to Memory

Users can set the unit to store incoming documents into its available memory. Later, using a 4-digit password, stored documents can be printed when the user is present. This function helps ensure that important documents are not read or lost while they are sitting unattended in the fax tray.

29. Relay Transmission Request

By setting the machine as an initial sending station, the unit is capable of setting up a relay request to a central hub machine with a network password. Documents can then be automatically transmitted to the end receiving stations. This model is designed to operate as an initial sending station.

30. Confidential Transmission and Polling

The documents can be transmitted to a predetermined destination with a 4-digit confidential code utilizing the Confidential Mailbox function. Stored messages in the Confidential Mailbox can be polled by the receiver at the destination terminal.

31. Confidential Mailbox (Proprietary)

When the received message is stored into the memory with a 4-digit confidential code, the message can be printed on recording paper or polled by a remote station. A maximum of 20 mailboxes* can be used. A remote confirmation report such as Confidential Memory Report and/or Confidential XMT Report is not transmitted to the source station and/or the remote station after Confidential Mailbox reception or polling transmission. (*UF-885: 10 mailboxes)

32. Remote Diagnostic Function

The remote Diagnostic Function can be used to diagnose the unit remotely over the PSTN or equivalent. A new host system is required for high speed remote diagnostics to be available.

33. Check and Call Function

This feature enables the Authorized Servicing Dealers to manage and improve the Fax machine maintenance to their customers by alerting them of equipment problems. It also can be used as a Supply Sales Tool by alerting the Dealer that the unit is running Low on Toner. The function overview is as follows:

- a. The machine's printer error information is stored in the Printer Report.
- b. The printer report can be manually printed when required.
- c. When printer errors occur, the unit can automatically transmit the Service Alert Report to the pre-registered telephone number.
- d. When the unit detects Low Toner, it can automatically transmit the Maintenance Alert Report to the pre-registered telephone number.
- e. When the unit detects Low Toner, it can automatically print out the Toner Order Form with pre-registered order information.

34. Multiple LOGO

This operation allows the user to select one of the 25 preset LOGOs before a Transmission. The selected LOGO is printed on the Header of each page sent, Cover Sheet, COMM. Journal and Individual Journal.

35. Department Code

This operation requires the user to input a preset 4-digit Department Code before transmission. The Department Name of the selected Department Code is printed on the Header of each page sent, Cover Sheet, COMM. Journal and Individual Journal. When the Department Code is set, the Transaction Journal will be sorted by the Department Code number when it is printed. If you wish to prevent unauthorized persons from setting, changing or erasing Department Code settings, you should set the Access Code to restrict these settings.

36. File Transmission

This feature allows your machine to store the document(s) into a special File in memory. This special File can be reused for transmission to a single or multiple locations when desired. This File will remain in memory until it is manually de leted.

1.3 General Specifications

- Communication Facility
 Public Switched Telephone Network (PSTN)
- 2. Line Coupling
 Direct Coupling

- 3. Input Level
 - -5 to -43 dbm (Germany: -5 to -46 dbm)
- 4. Output Level

0 to -15 dbm

5. Control Procedure

ITU-T/CCITT Rec. T.30

MGCS Proprietary short protocol

6. Modem Speed

V34

33600 - 2400 bps @2400 step (QAM with TCM)

V.17

14400, 12000, TC9600, TC7200 bps (QAM with TCM)

V 33

14400, 12000 bps (QAM with TCM)

V.29

9600, 7200 bps (QAM)

V.27ter

4800, 2400 bps (PhM)

7. Coding Scheme

MH (Modified Huffman), MR (Modified Read), MMR (Modified Modified Read) JBIG (Joint Bi-level Experts Group)

8. Communication Resolution

<Transmission>

Standard

203 dpi x 98 lpi (8 pels/mm x 3.85 lines/mm)

Fine

203 dpi x 196 lpi (8 pels/mm x 7.70 lines/mm)

S-Fine

203 dpi x 391 lpi (8 pels/mm x 15.4 lines/mm) 406 dpi x 391 lpi (16 pels/mm x 15.4 lines/mm)

<Reception>

Standard

203 dpi x 98 lpi (8 pels/mm x 3.85 lines/mm)

Fine

203 dpi x 196 lpi (8 pels/mm x 7.70 lines/mm) 203 dpi x 391 lpi (8 pels/mm x 15.4 lines/mm)

S-Fine

406 dpi x 391 lpi (16 pels/mm x 15.4 lines/mm)

9. Halftone (Photo)

64 Levels, Error Diffusion

10. Error Correction Mode

ITU-T/CCITT Rec. T.30 ECM

11. Image Memory Capacity

(Flash Memory)

Standard (Base)

60 pages (UF-885)

120 pages (UF-895)

Option (Additional)

80 pages (1 MB byte: UE-410045)

160 pages (2 MB byte: UE-410046)

320 pages (4 MB byte : UE-410047)

640 pages (8 MB byte : UE-410048)

(using ITU-T Image No.1 in Standard Resolution)

12. Transmission Speed

3 Seconds using ITU-T Image No. 1 in Standard Resolution, memory to memory communication.

13. Automatic Dialing

Dialing Signal

10 PPS/20 PPS/DTMF

Dialing Method

One-Touch Dialing

Up to 40 keys (including 8 programmable keys)

Abbreviated Dialing

Up to 160 stations

Manual Number Dialing

Up to 70 stations (UF-895), Up to 32 stations (UF-885)

(Direct Dialing)

(Up to 36 digits including pauses)

Programmable Dialing Combination Dialing

Up to 8 programmable keys Combination of One-Touch, Abbreviated and Manual Number

Dialing

Multi-Station Dialing

Multi-Station Transmission/Polling

[Up to 232 stations (UF-885), Up to 270 stations (UF-895)]

Deferred Multi-Station Transmission//Polling

[Up to 232 stations (UF-885), Up to 270 stations (UF-895)]

Registration Memory Capacity in One-Touch and Abbreviated Dialing

Number of Stations

Up to 200 stations

Telephone number of

each station

Up to 36 digits (Including pauses and spaces)

Station name for each

station

Up to 15 characters

Redialing

Automatic

Up to 15 times with 0 to 15 minute intervals By pressing the Redial button (last number dialed)

Manual

14. Print Reduction Ratio

A4 / Letter

70 to 100% in 1% steps

Legal

85 to 100% in 1% steps (according to the received document length)

15. Clock Backup Battery

This unit uses a Lithium battery to save the clock and calendar.

The service life is approximately 1 year during power faiure.

↑ CAUTION

denotes hazards that could result in minor injury or damage to the machine.

THIS PRODUCT CONTAINS A LITHIUM BATTERY. DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS OF YOUR LOCAL SOLID WASTE OFFICIALS.

Scanner Specifications 1.4

1. Document Dimensions

Width

Minimum 148 mm

Maximum 280 mm

Length

Minimum 128 mm

Maximum 356 mm

Note

With operator's assistance, a maximum of 2000 mm length document can be sent (one page at a time) through the ADF.

2. Automatic Document Feeder

The Automatic Document Feeder feeds the originals from the document tray automatically, starting with the both m page.

Paper thickness

Single-page

: 0.06 to 0.15 mm

Capacity

Multi-page

:

: 0.06 to 0.12 mm

20 documents (Legal Size - 20 lb)

50 documents (Letter / A4 Size - 20 lb)

3. Scanning Method

Horizontal

Sheet Feeding with CCD type image sensor

Vertical

Stepper Motor feeding

4. Effective Scanning Width

252 mm

5. Scanning Resolution

Standard

:

8 pels/mm x 3.85 lines/mm

Fine

8 pels/mm x 7.7 lines/mm

S-Fine

8 pels/mm x 15.4 lines/mm

16 pels/mm x 15.4 lines/mm (Interpolated)

6. Contrast Selection

3 steps (Normal / Lighter / Darker)

1.5 Printer Specifications

1. Recording Paper Size (W x L)

Letter

216 x 279 mm

Legal

216 x 356 mm

A4

210 x 297 mm

2. Recommended Recording Paper Weight

60 to 90 g/m²

3. Paper Capacity with standard cassette

500 sheets (75g/m²)

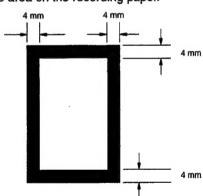
4. Printing Resolution

406.4 X 391.16 dpi (Fax or Copy)

600 X 600 dpi (Printer)

5. Non Printable Margin

The shaded areas represent the unprintable area on the recording paper.



6. Printing Speed

10 ppm (6 seconds/page)

7. Fuser Warm Up Time

Within 70 seconds after turning the power on.

[Room Temperature: 20 to 35°C]

1.6 **Power**

1. Power Requirement

180~264 VAC, 47~63Hz, Single Phase (200V Version) 99~138 VAC, 47~63Hz, Single Phase (100V Version)

Сору

2. Power Consumption

Max Reception

Approx. 460 W Approx. 470 W Approx. 23 W

Transmission Standby (Sleep Mode: On)

Approx. 1.3 W/H (200V Version) Approx. 1.2 W/H (100V Version)

Standby (Sleep Mode: On) Standby (Energy-Saver Mode: On)

Approx. 10 W/H

Standby (Energy-Saver Mode: Off)

Approx. 85 W/H

Approx. 470 W

[Room temperature: 25°C]

1.7 **Environment**

1. Operating Environment

Temperature

10 to 35°C

Relative Humidity

15 to 70% RH

The unit must be kept on an even, level surface,

2. Storage Environment (Carton Box Condition)

Temperature

-20 to 40°C

Relative Humidity

5 to 85% RH

Note

The machine should be stored upright.

3. Transportation Environment (Max. 480 hours, Carton Box Condition)

Temperature

-20 to 50°C

Relative Humidity

15 to 85% RH

1.8 Construction

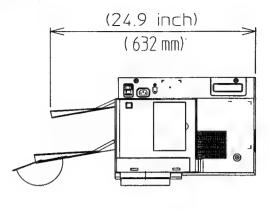
Dimensions (W x D x H)

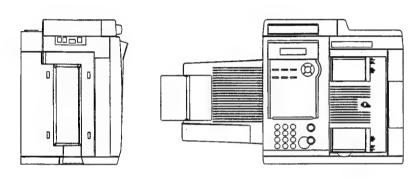
440 x 450 x 310 mm

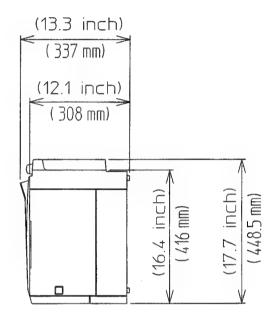
Weight (excluding paper)

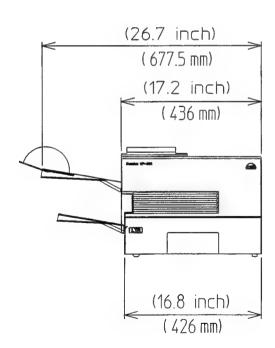
Approximately 16 Kg

1.8.1 External View

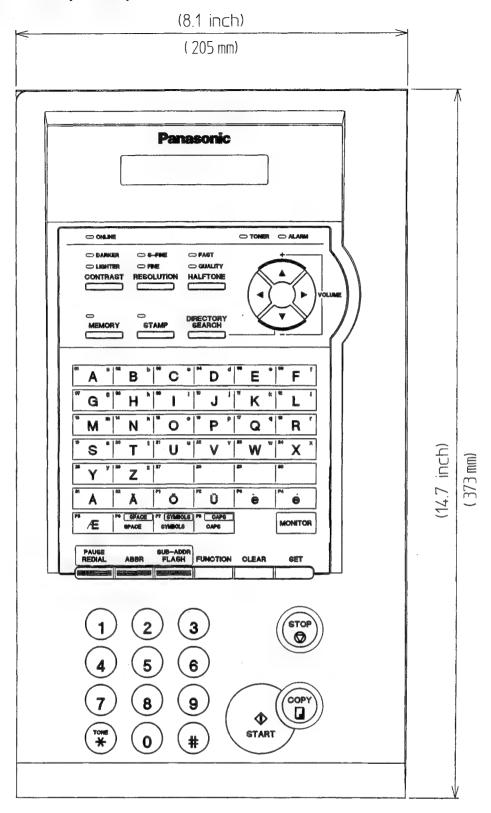




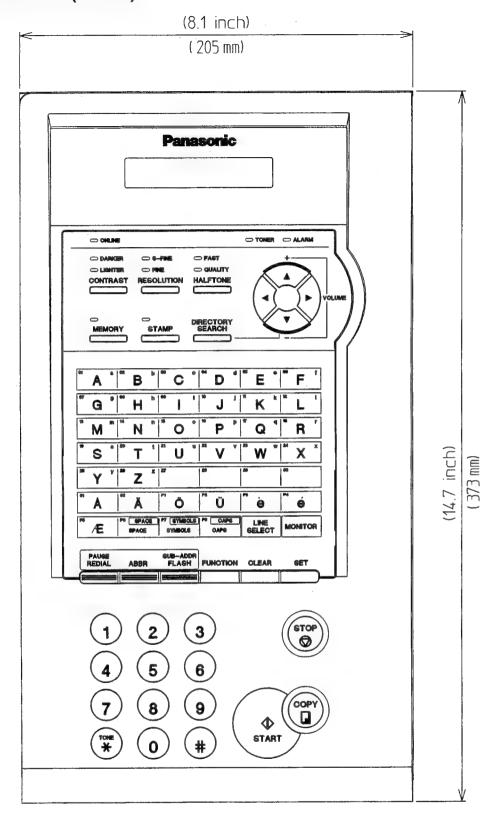




1.8.2 Control Panel (UF-885)



1.8.3 Control Panel (UF-895)



1.9 Function Table

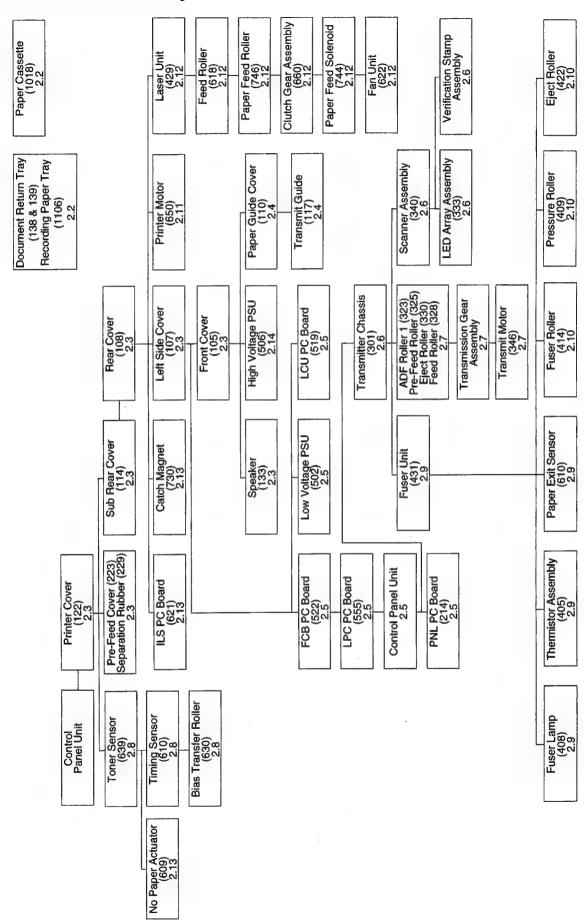
Items	UF-885	UF-895
MAIN SPECIFICATION		
Compatibility	[G3	-
Modem Speed (kbps)	33.6 - 2.4	(
Coding Scheme	MH/MR/MMR/JBIG	←
ECM (Conforms to ITU-T/CCITT)	Yes (MMR/JBIG)	(-
MWS	No	←
Short Protocol	Yes (B, D)	←
Transmission Speed	3 seconds	←
(ITU-T Image No.1)		
Communication Resolution (dpi x lpi) (Conforms to ITU-T/CCITT)	Tx 203 x 98 203 x 196	←
(Conforms to 110-1/CC111)	203 x 190 203 x 391	
	406 x 391	
	Rx 203 x 98	1
	203 x 196	
	203 x 391	
	406 x 391	}
SCANNER MECHANISM		
ADF Capacity	50 Sheets	
Max. Document Size	280 x 2000 mm	
Min. Document Size	148 x 128 mm	
Effective Scanning Width	252 mm	
Scanning Device	CCD (B4)	
Scanning Resolution (dpi x lpi)	203 x 98 (8 pels x 3.85 lines/mm)	←
Code in ing 7 to obtain (CP 7 7 7)	203 x 196 (8 pels x 7.7 lines/mm)	
	203 x 391 (8 pels x 15.4 lines/mm)	
	406 x 391 (16 pels x 15.4 lines/mm)	
	(Interpolated)	
Scanning Speed	Approx. 2.8 seconds	Approx. 1 second
(A4 size document, standard resolution)		
Reduction XMT	Yes (B4 →A4/Letter)	←
Collation Stack	Yes	←
PRINTER MECHANISM		
Recording Method	Laser Printing	←
Recording Paper Size	A4/Letter/Legal	←
Recording Paper Capacity	500 sheets (Cassette)	←
Optional Recording Paper Cassette	Yes (250, 500 or 250 + 500 sheets)	-
Effective Printing Width	Letter : 208 mm	←
	A4 : 202 mm	
Recording Resolution	406 x 391 dpi (Fax or Copy) 600 x 600 dpi (Printer)	←
Recording Speed	10 ppm (6 sec / page)	←
Heater Timer (Inc. Fan Timer)	Yes	←
Collation Stack	Yes (Memory)	←
Cassette Size Detector	Yes	←
DOCUMENT MEMORY		-
Document Memory Capacity (Flash Memory)	60 pages (1 MB)	120 pages (2 MB)
Optional Document Memory	Yes	←
(Flash Memory)	1 MB: +80 pages	
(last money)	2 MB: +160 pages	
	4 MB : +320 pages	1
	8 MB: +640 pages	
Document Memory Backup	Yes (Permanent)	←
Optional Document Memory Backup	No (not required)	←
PRINTER PAGE MEMORY	1 1	
Optional Page Memory		
(D-RAM Memory)	Yes	←
2 MB	Yes	-
4 MB	Yes	-
8 MB	Yes	-
COPY QUALITY		
ABC	Yes	 ←
Contrast Selection	Yes (3 levels) [New Type]	-
Halftone (Photo)	64 levels Error Diffusion,	<u>←</u>
	Fast and Quality Mode	
L	<u> </u>	<u> </u>

Items	UF-885	UF-895
Super Fine (dpi x lpi)	203 x 391	-
(2000)	406 x 391	
Smoothing	Yes (Copy and Fax)	←
	No (PC Printing)	
MULTIPLE OPERATIONS		
Multiple Operation	Yes	-
Direct XMT Reserve	Yes	←
Memory XMT Reserve	Yes	
DIALING FEATURES		
One-Touch Keys	32	-
One-Touch/Program Keys	8	←
Auto dialing locations	200	←
One-Touch Auto Dialing	40	-
Abbr. Auto Dialing	160	←
Max. digits on AD	36	←
Max. ID characters on AD	15	←
Alternative Abbr. Dialing	No	
Full Number Dialing	32 stations	70 stations
Redialing	Yes	←
Combination Dialing	Yes (On Monitor Dialing Mode only)	←
Directory Search Dialing	Yes	←
Line Monitor Speaker	Yes	←
Pulse/Tone change	Yes	←
Flash Key	Yes	←
TRANSMISSION FEATURES		
Memory Transmission	Yes	←
Multi-Station Transmission	Yes (232 stations)	Yes (270 stations)
Multifile Transmission	Yes (30 files)	Yes (70 files)
Deferred Transmission	Yes (30 timers)	Yes (70 timers)
Deferred Multi-Station Transmission	Yes (30 timers, 232 stations)	Yes (70 timers, 270 stations)
Priority Transmission	Yes (ADF TX Reserve)	←
Batch Transmission	Yes (Up to 5 files)	←
Cover Sheet	Yes	←
RECEPTION FEATURES		
Substitute Memory Reception	Yes	
Auto Reduction to A4 / Letter	Yes (70-100%)	←
Auto Reduction to Legal	Yes (85-100%)	←
Overlapping Print	Yes	<u> </u>
Fax/Tel Auto Switch	No	←
TAM interface	No	←
TAM interface Parallel TAM hookup	No No	←
TAM Interface Parallel TAM hookup Receive to Memory	No No Yes	← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception	No No Yes	← ← ←
TAM interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector	No No Yes	← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES	No No Yes No Yes (Specific countries only)	← ← ← ←
TAM interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling	No No Yes No Yes (Specific countries only)	← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling	No No Yes No Yes (Specific countries only) Yes No	← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Rx Deferred Polling	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Rx Deferred Polling	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS	No No Yes No Yes (Specific countries only) Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Tx Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy Multiple Copy	No No Yes No Yes (Specific countries only) Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes Yes Yes Yes Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy Multiple Copy Copy Enlargement	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes Yes Yes Yes Yes Yes Yes Yes (99 copies) No	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy Multiple Copy Copy Enlargement Copy Reduction	No No Yes No Yes (Specific countries only) Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes Yes Yes Yes Yes Yes Yes Yes Yes (200m Ratio: 70 - 100%)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy Multiple Copy Copy Enlargement Copy Reduction Copy Resolution	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes Yes Yes Yes Yes Yes Yes Yes (99 copies) No	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy Multiple Copy Copy Enlargement Copy Reduction Copy Resolution CERTAINTY	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy Multiple Copy Copy Enlargement Copy Reduction Copy Resolution CERTAINTY Verification Stamp	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes Yes Yes Yes Yes Yes Yes Yes (99 copies) No Yes (Zoom Ratio: 70 - 100%) 406 x 391 lpi	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
TAM Interface Parallel TAM hookup Receive to Memory Remote Reception Distinctive Ring Detector POLLING FEATURES Polling Turnaround Polling Multi-Station Polling Continuous Polling Tx Continuous Polling Rx Deferred Polling Deferred Multi-Station Polling Direct Polling TX Memory Polling TX Preset Polling Password Temporary Polling Password COPY FUNCTIONS Single Copy Multiple Copy Copy Enlargement Copy Reduction Copy Resolution CERTAINTY	No No Yes No Yes (Specific countries only) Yes No Yes (232 Stations) Yes (Station mode) Yes Yes (30 timers) Yes (30 timers, 232 stations) Yes (Select the function by parameter 03 "Continuous Polling".) Yes (1 file) Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←

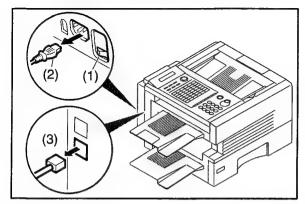
Items	UF-885	UF-895
Transaction Journal	Yes (100)	←
Last Individual XMT Journal	Yes	←
View Mode	Yes	←
LIST PRINTOUTS	1	
One-Touch List	Yes	←
Abbr. No. List	Yes	←
Program List	Yes	←
Directory Search List	Yes	
Fax Parameter List	Yes	←
File List	Yes	←
Character Code List	No	←
Directory Sheet	Yes	←
Caliback Message	No	—
IDENTIFICATIONS		
Logo/TTI	25 characters	←
Multiple Logo	Yes (25)	←
Character ID	16 characters	←
Numeric ID	20 digits	-
SPECIAL COMM.		<u> </u>
Password XMT/RCV (Closed Network)	IYes	←
Selective Reception (TSI check)	Yes	<u>←</u>
Relay XMT Request	Yes	<u></u>
Relay XMT Center	No	<u>·</u>
Confidential XMT/Polling	Yes	<u></u>
Confidential Comm. Center	No	· ←
Malibox XMT/Polling	Yes	<u>-</u>
Mailbox Center	Yes (10 boxes)	Yes (20 boxes)
	1.00 (1.0 0.000)	, , , , , , , , , , , , , , , , , , , ,
OMB-XMT	No	←
OMR-XMT Sub-Address XMT		←
Sub-Address XMT	Yes (T. Routing)	←
Sub-Address XMT Sub-Address RCV		
Sub-Address XMT	Yes (T. Routing) Yes (T. Routing with PC I/F)	← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS	Yes (T. Routing) Yes (T. Routing with PC I/F)	← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes	← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code)	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No	← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24)	← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD	← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys	← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD	← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No No Yes (Up to 5 files) No Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Printer Interface	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface Encryption Interface	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface V24 Interface	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes Yes No No Yes (Up to 5 files) No Yes (Up to 5 files)	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface V24 Interface PC Interface	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes (Up to 5 files) Yes Yes Yes Yes Yes Yes No No Yes (Yes Yes Yes Yes No No Yes (Yes Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Printer Interface Encryption Interface V24 Interface PC Interface CONSTRUCTION	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes No No Yes (24) Yes Yes No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Printer Interface Encryption Interface V24 Interface PC Interface CONSTRUCTION Telephone Handset	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface V24 Interface PC Interface CONSTRUCTION	Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes No No Yes (24) Yes Yes No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes	← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←

2 Disassembly Instruction

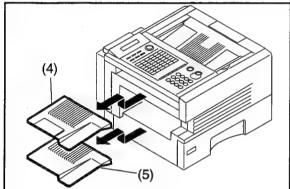
2.1 General Disassembly Flowchart



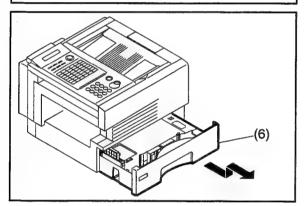
2.2 Power Cord (1108), Telephone Line Cable (1107), Document Return Tray (138 and 139), Recording Paper Tray (1106), Paper Cassette (1018)



- (1) Turn the Power Switch "OFF".
- (2) Disconnect the Power Cord (1108).
- (3) Disconnect the Telephone Line Cable (1107).

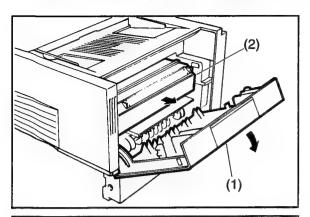


- (4) Remove the Document Return Tray (138 and 139).
- (5) Remove the Recording Paper Tray (1106).

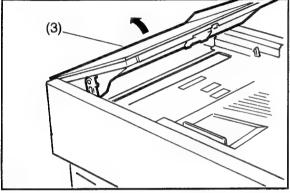


(6) Remove the Paper Cassette (1018).

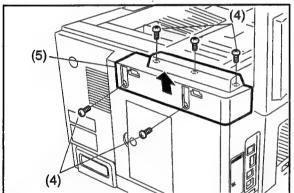
2.3 Sub Rear Cover (114), Rear Cover (108), Left Side Cover (107), Front Cover (105), Speaker (133)



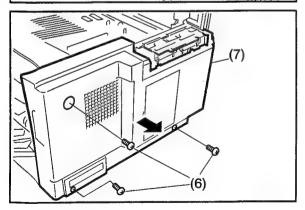
- (1) Open the Printer Cover (122).
- (2) Remove the Toner Cartridge.



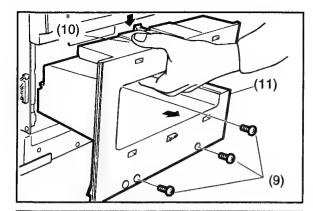
(3) Open the Control Panel Unit.

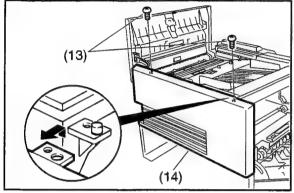


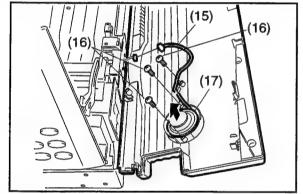
- (4) 5 Screws (B1).
- (5) Remove the **Memory Card Cover** (115) and the **Sub Rear** Cover (114).

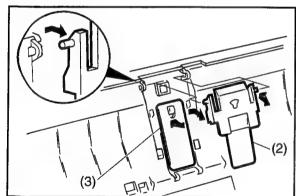


- (6) 3 Screws (B1).
- (7) Remove the Rear Cover (108).









- (8) Close the Control Panel Unit.
- (9) 3 Screws (B1).
- (10) Hold in the center and release the Latch Hook.
- (11) Remove the Left Side Cover (107).

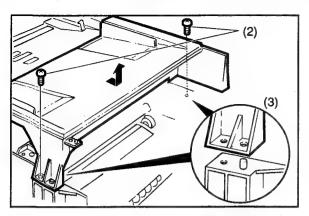
- (12) Open the Control Panel Unit.
- (13) 2 Screws (B1).
- (14) Release the hook and remove the Front Cover (105).

- (15) Disconnect Connector on the Speaker Harness.
- (16) 2 Screws (B1), 1 Screw (1Y).
- (17) Remove the Speaker Assembly (133).

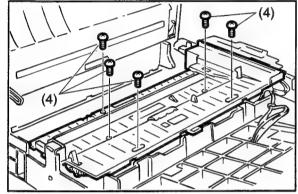
Cleaning Separation Rubber (229)

- (1) Open the Control Panel Unit.
- (2) Remove the Pre-Feed Cover (223).
- (3) Remove the Separation Rubber (229).
- (4) Clean the **Separation Rubber** (229) with a soft cloth, soaked with isopropyl alcohol.

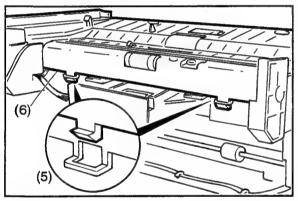
2.4 Paper Guide Cover (110), Transmit Guide (117), SNS Assembly (121)



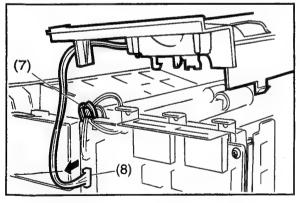
- (1) Remove the **Front Cover** (105) and the **Rear Cover** (108) (Refer to 2.3).
- (2) 2 Screws (19).
- (3) Remove the Paper Guide Cover (110).



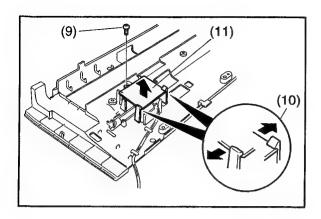
(4) 5 Screws (19).



- (5) Release two Latch Hooks.
- (6) Remove the Transmit Guide (117).

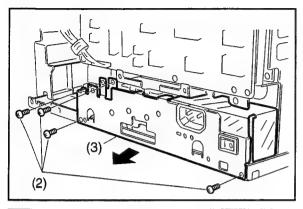


- (7) Remove the SNS Assembly Harness from the clamp.
- (8) Disconnect Connector CN7 on the FCB PC Board.

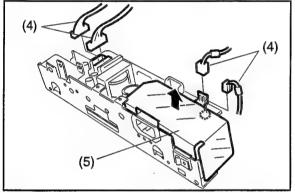


- (9) 1 Screw (19). (10) Release two Latch Hooks.
- (11) Remove the SNS Assembly (121).

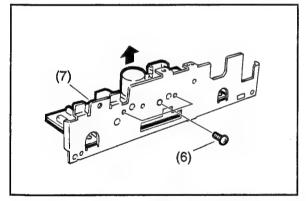
2.5 Low Voltage Power Supply Unit (502), FCB PC Board (522), LCU PC Board (519), LPC PC Board (555), Control Panel Unit, PNL PC Board (214)



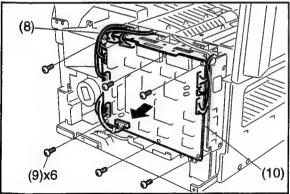
- (1) Remove the **Left Side Cover** (107) and the **Rear Cover** (108) (Refer to 2.3).
- (2) 4 Screws (19).
- (3) Pull out the Low Voltage Power Supply Assembly.



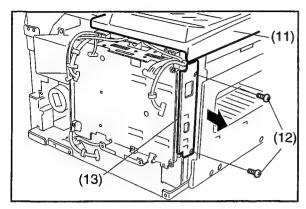
- (4) Disconnect 4 **Connectors** on the Low Voltage Power Supply Assembly.
- (5) Remove the Mylar Shield (508).



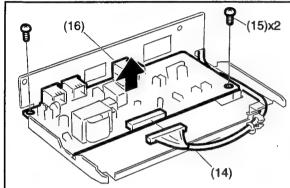
- (6) 3 Screws (19).
- (7) Remove the Low Voltage Power Supply Unit (502).



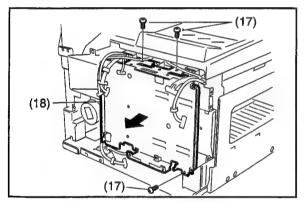
- (8) Disconnect all Connectors on the FCB PC Board.
- (9) 6 Screws (C8).
- (10) Remove the FCB PC Board (522).



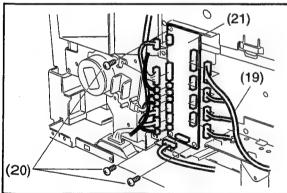
- (11) Close the Control Panel Unit.
- (12) 2 Screws (19).
- (13) Remove the LCU Bracket (512).



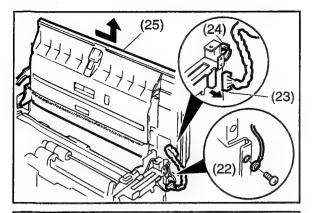
- (14) Disconnect Connector CN25 on the LCU PC Board.
- (15) 2 Screws (C8).
- (16) Remove the LCU PC Board (519).

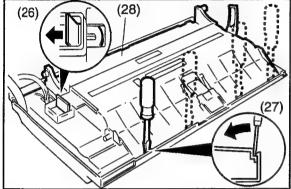


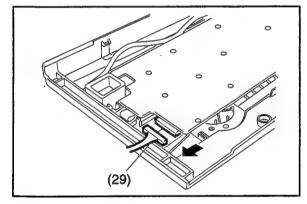
- (17) 3 Screws (19).
- (18) Remove the FCB Bracket (523).

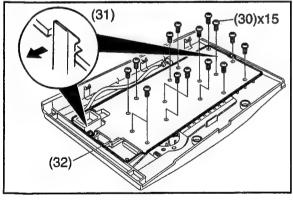


- (19) Disconnect all Connectors on the LPC PC Board.
- (20) 3 Screws (C8).
- (21) Remove the LPC PC Board (555).







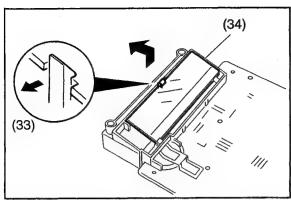


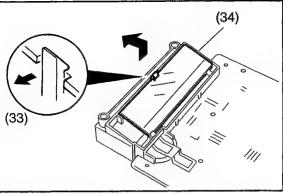
- (22) 1 Screw (19) and remove the Ground Strap (540).
- (23) Disconnect Connector CN11 on the FCB PC Board.
- (24) Remove the Harness from the clamp.
- (25) Remove the Control Panel Unit.

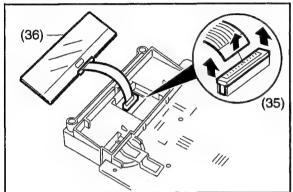
- (26) Remove the Battery Holder (1114) Assembly.
- (27) Release 4 Latch Hooks.
- (28) Remove the Control Panel Chassis (216).

(29) Disconnect Connector CN41 on the PNL PC Board.

- (30) 15 Screws (7B).
- (31) Release two Latch Hooks.
- (32) Remove the PNL PC Board (214).



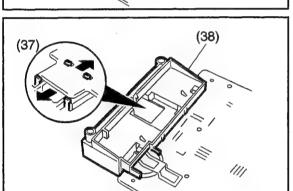




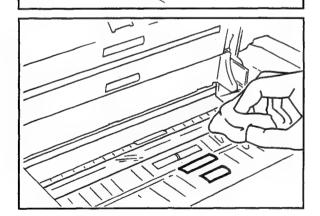
- - (35) Disconnect Connector CN42 on the PNL PC Board.
 - (36) Remove the LCD Unit (215).

(33) Release Latch Hook.

(34) Carefully lift the LCD Unit (215).



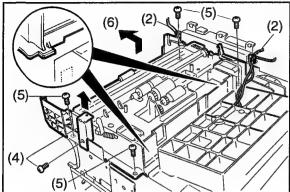
- (37) Release 4 Latch Hooks on the back of the LCD Holder.
- (38) Remove the LCD Holder (232).



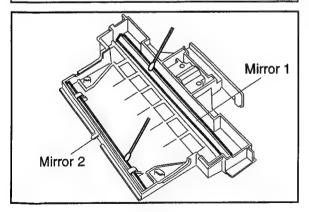
Cleaning ADF Roller (323), Pre-Feed Roller (325), Feed Roller (328), Eject Roller (330) and the Scanner Glass (341)

- (1) Open the Control Panel Unit.
- (2) Clean the ADF Roller (323), Pre-Feed Roller (325), Feed Roller (328), Eject Roller (330) and the Scanner Glass (341) with a soft cloth, soaked with isopropyl alcohol.

Transmitter Chassis (301), Scanner Assembly (340), 2.6 LED Array Assembly (333), Verification Stamp Assembly



- (9)



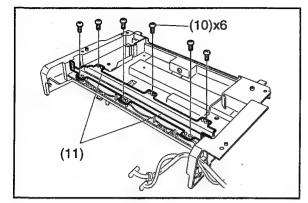
- (1) Remove the Front Cover (105), Rear Cover (108) (Refer to 2.3) and the Control Panel Unit (Refer to 2.5).
- (2) Remove all the harnesses from the clamps.
- (3) Disconnect Connector CN8 on the FCB PC Board.
- (4) 1 Screw and remove the Front Bracket 2 (136).
- (5) 4 Screws (19).
- (6) Remove the Transmitter Chassis (301) Assembly.
- (7) Disconnect Connector CN30 on the CCD PC Board.
- (8) 2 Screws (19).
- (9) Remove the Scanner Assembly (340).

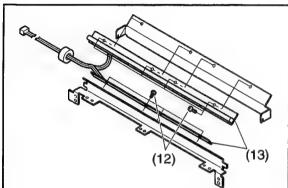
Note: When reinstalling the CCD Harness,

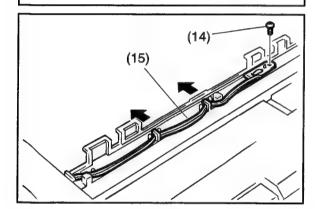
- 1. Separate the CCD Harness (545) from the other
- 2. Place the other harnesses into the Harness Protector Film

Cleaning Mirror 1 (337), Mirror 2 (338)

Clean the Mirror 1 (337) and Mirror 2 (338) with a softcloth, soaked with isoproyl alcohol.







- (10) 6 Screws (19).
- (11) Remove the LED Array Bracket 1 (332) and LED Array Bracket 2 (351).

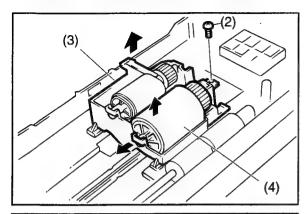
- (12) 8 Screws (9H).
- (13) Remove two LED Array Assemblies (333).

Note:

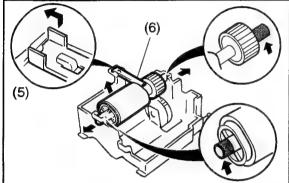
UF-885 has only one LED Array Assembly.

- (14) 1 Screw (19).
- (15) Remove the **Stamp Holder** (334) and **Stamp Solenoid** (335).

2.7 ADF Roller (323), Pre-Feed Roller (325), Eject Roller (330), Feed Roller (328), Transmission Gear Assembly, Transmit Motor (346)



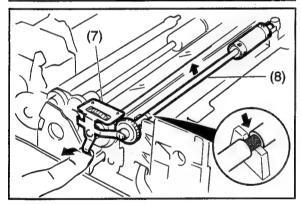
- (1) Remove the **Front Cover** (105), **Rear Cover** (108) (Refer to 2.3), **Control Panel Unit** (Refer to 2.5) and the **Transmitter Chassis** (301) Assembly (Refer to 2.6).
- (2) 1 Screw (19).
- (3) Remove the ADF Bracket (317) Assembly.
- (4) Remove the ADF Roller (323).



- (5) Remove the Pressure Spring Plate (324).
- (6) Remove the Pre-Feed Roller (325).

Note:

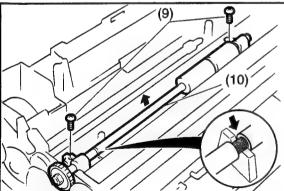
Apply Molykote EM-50L Grease to the Pre-Feed Roller (325).



- (7) Remove the **Ground Spring Plate A** (316).
- (8) Remove the document Eject Roller (330).

Note:

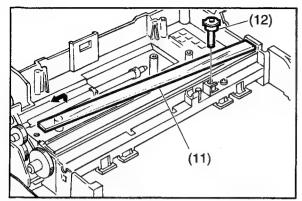
Apply Molykote EM-50L Grease to the Eject Roller (330).



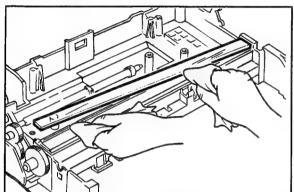
- (9) 2 Screws (19).
- (10) Remove the Feed Roller (328).

Note

Apply Molykote EM-50L Grease to the Feed Roller (328).

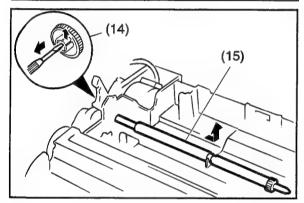


- (11) Remove the Scanner Glass (341).
- (12) Remove the Stamp Head Assembly.



Note:

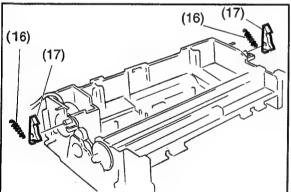
Before reassembling, clean both sides of the Scanner Glass (341) with a soft cloth, soaked with isoproyl alcohol.



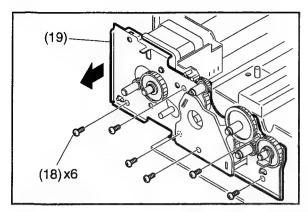
- (13) Release the hook on the drive gear.
- (14) Remove the B31B61 Drive Gear (314).
- (15) Remove the **Idle Shaft** (331) and the **B18 Drive Gear** (348).

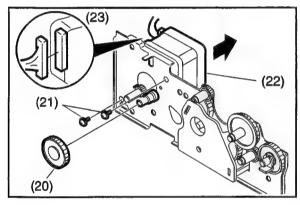
Note:

Apply Molykote EM-50L Grease to the Idle Shaft (331).



- (16) Remove 2 Latch Coil Springs (303).
- (17) Remove 2 Latches (302).





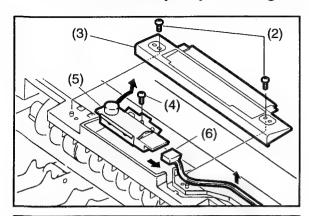
- (18) 6 Screws (19).
- (19) Remove the **Motor Bracket A** (304) with the Transmission Gear Assembly.

Note

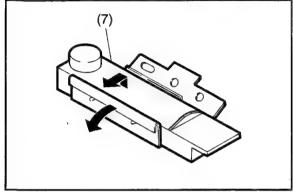
Apply Molykote EM-50L Grease to the Transmit Motor (346) Gear, B35 Drive Gear (Feed Roller) (326) and B35 Drive Gear (Eject Roller) (326).

- (20) Remove the **B30 Gear** (307).
- (21) 2 Screws (36).
- (22) Remove the Transmit Motor (346).
- (23) Remove the TMOT Harness (347).

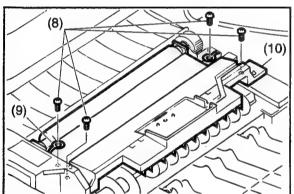
2.8 Toner Sensor (639), Timing Sensor (610), Bias Transfer Roller (630)



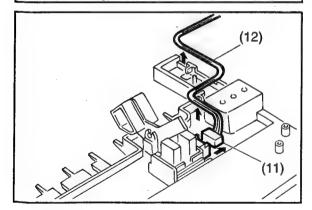
- (1) Open the Printer Cover (122) (Refer to 2.3).
- (2) 2 Screws (19).
- (3) Remove the Toner Sensor Cover (640).
- (4) 1 Screw (19).
- (5) Remove the Toner Sensor Assembly.
- (6) Disconnect **Connector** and remove the **Harness** from the Upper Transport Guide.



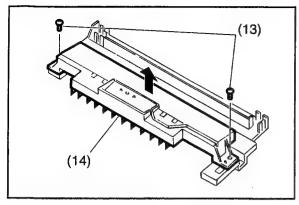
(7) Remove the Toner Sensor (639).



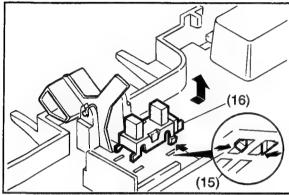
- (8) 4 Screws (19). (Remove the resistor screw first)
- (9) Remove the Ground Strap (653).
- (10) Remove the Transport Unit.



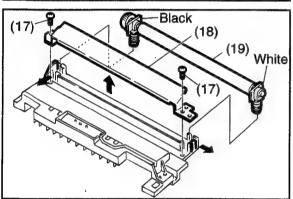
- (11) Disconnect Connector from the Timing Sensor.
- (12) Remove the **Harness** from the Transport Unit.



- (13) 2 Screws (19).
- (14) Remove the Upper Transfer Guide (635).

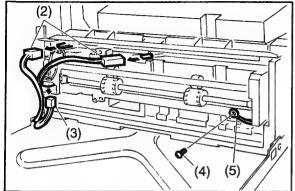


- (15) Release 2 Latch Hooks.
- (16) Remove the **Timing Sensor** (610).

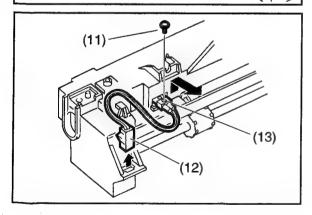


- (17) 2 Screws (19).
- (18) Remove the BTR Guide (629).
- (19) Remove the Bias Transfer Roller (630).

Fuser Unit (431), Fuser Lamp (408), Thermistor Assembly (405), Paper 2.9 Exit Sensor (610)



- (7)
- (10)



- (1) Remove the Left Side Cover (107) (Refer to 2.3).
- (2) Disconnect 2 Connectors.
- (3) Disconnect the Relay Connector.
- (4) 1 Screw (19).
- (5) Remove the Ground Strap (653).

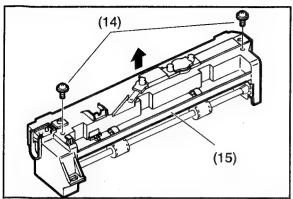
- (6) 3 Screws (4N).
- (7) Remove the Fuser Unit (431).

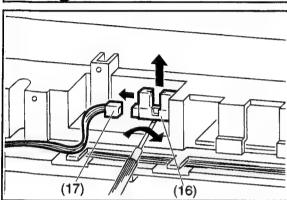
- (8) 1 Screw (23).
- (9) Remove the Fuser Lamp Terminal C (404).
- (10) Remove the Fuser Lamp (408).

Caution:

When re-installing the Fuser Lamp, make sure that the Fuser Lamp is inserted into the Fuser Unit as illustrated on the left. Do not touch the glass portion of the Fuser Lamp with bare hands. Grease from the fingerprints will shorten its life cycle, use isopropyl alcohol to clean fingerprints.

- (11) 1 Screw (1Q).
- (12) Disconnect Connector.
- (13) Remove the Thermistor Assembly (405).

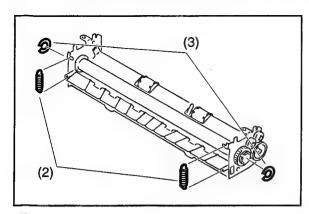




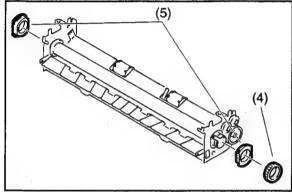
- (14) 2 Screws (23).(15) Remove the Fuser Cover (401).

- (16) Remove the Paper Exit Sensor (610).(17) Disconnect Connector.

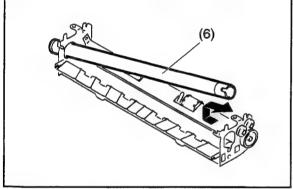
2.10 Fuser Roller (414), Pressure Roller (409), Eject Roller (422)



- (1) Remove the Fuser Unit (431) (Refer to 2.9).
- (2) 2 Pressure Springs (412).
- (3) 2 C-Rings (418).



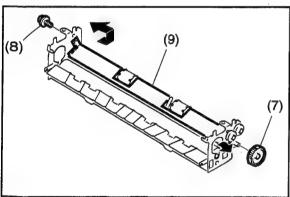
- (4) Remove the E24 Drive Gear (417).
- (5) Remove 2 P17L6.8 Bushings (416).



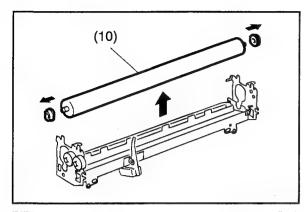
(6) Remove the Fuser Roller (414).

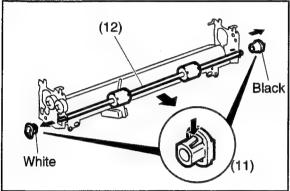
Caution:

Do not scratch the surface of the Fuser Roller when removing or re-installing it.



- (7) Remove the **E22 Gear** (425).
- (8) 1 Screw (4N).
- (9) Remove the Lower Paper Guide (426).



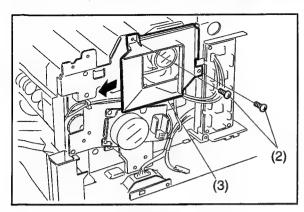


(10) Remove the **Pressure Roller** (409).

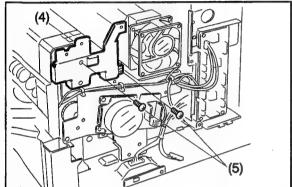
Do not scratch the surface of the Pressure Roller when removing or re-installing it.

- (11) Remove the Black and the White Bushings (423) (424).
- (12) Remove the **Eject Roller** (422).

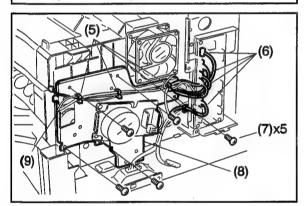
2.11 Fan Duct (520), Printer Motor (650), Motor Bracket (641)



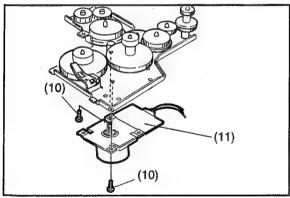
- (1) Remove the the Front Cover (105), Rear Cover (108) (Refer to 2.3), Control Panel Unit and FCB Bracket (523) (Refer to 2.5).
- (2) 2 Screws (19).
- (3) Remove the Fan Duct (520).



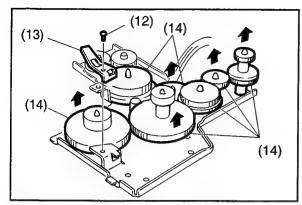
- (4) 2 Screws (19).
- (5) Remove the Fan Duct Bracket (526).

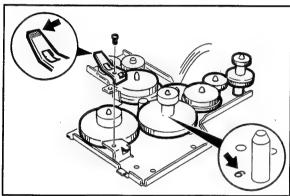


- (6) Remove the Harnesses from the 4 clamps.
- (7) Disconnect **Connectors CN54**, **55**, **59**, **61**, **62** and **63** on the LPC PC Board.
- (8) 5 Screws (19).
- (9) Remove the Motor Bracket (641).



- (10) 2 Screws (19).
- (11) Remove the Printer Motor (650).





- (12) 1 Screw (19).
- (13) Remove the Transfer Ground Spring (649).
- (14) 7 Gears.

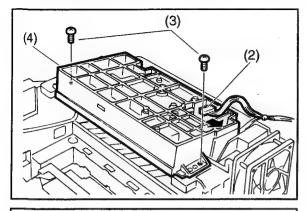
Caution:

When re-installing the gear (labeled "6"), be sure to install the washer on the shaft first.

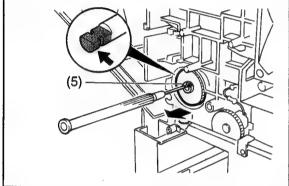
Note:

Apply KS-660 Conductive Grease to the Transfer Ground Spring (649) or to the end of the Feed Roller Shaft (618), see page 41.

2.12 Laser Unit (429), Feed Roller (618), Paper Feed Roller (746), Clutch Gear Assembly (660), Paper Feed Solenoid (744), Fan Unit (622)



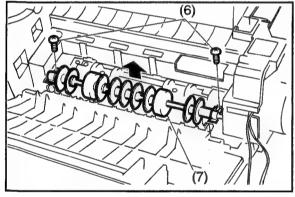
- (1) Remove the the Front Cover (105), Rear Cover (108) (Refer to 2.3), Paper Guide Cover (110) (Refer to 2.4), Control Panel Unit (Refer to 2.5), and Motor Bracket and Gear Assembly (Refer to 2.11).
- (2) Disconnect Connectors.
- (3) 2 Screws (19).
- (4) Remove the Laser Unit (429).



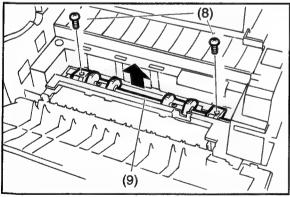
(5) Remove the E34 Drive Gear (620).

Note:

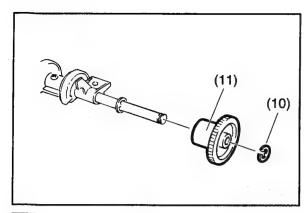
When reassembling, apply KS-660 Conductive Grease to the end of the Feed Roller Shaft (618).



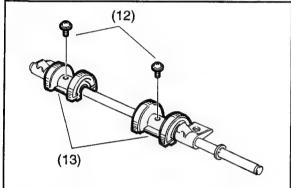
- (6) 2 Screws (19).
- (7) Remove the Feed Roller (618).



- (8) 2 Screws (19).
- (9) Remove the Paper Feed Roller Assembly.



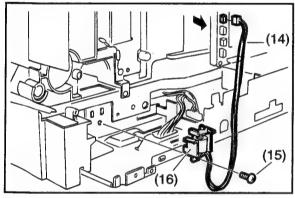
- (10) Remove the E-Ring (5Z).
- (11) Remove the Clutch Gear Assembly (660).



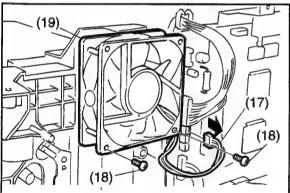
- (12) 2 Screws (23).
- (13) Remove the Paper Feed Rollers (746).

Note:

The Paper Feed Rollers can be accessed from the bottom of the machine after removing the Paper Cassette.

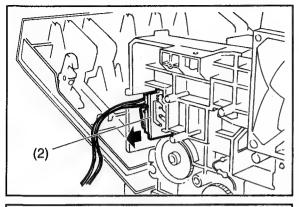


- (14) Disconnect Connector CN55 on the LPC PC Board.
- (15) 1 Screw (19).
- (16) Remove the Paper Feed Solenoid (744).

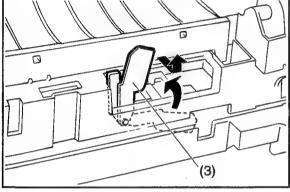


- (17) Disconnect Connector CN54 on the LPC PC Board.
- (18) 2 Screws (1Y).
- (19) Remove the Fan Unit (622).

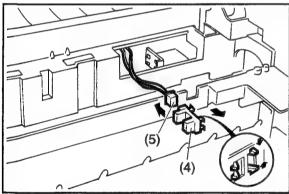
2.13 ILS PC Board (621), No Paper Actuator (609), Catch Magnet (730)



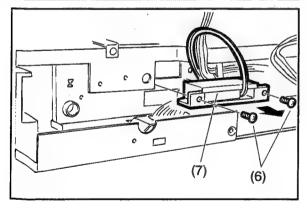
- (1) Remove the the Front Cover (105), Rear Cover (108) (Refer to 2.3), Paper Guide Cover (110) (Refer to 2.4), Control Panel Unit (Refer to 2.5), and Motor Bracket and Gear Assembly (Refer to 2.11).
- (2) Remove the ILS PC Board (621).



(3) Remove the No Paper Actuator (609).

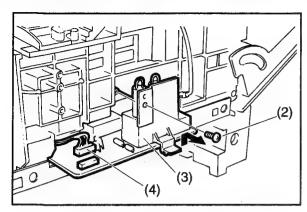


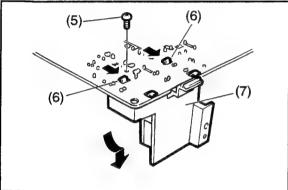
- (4) Remove the Paper Sensor (610).
- (5) Pull out the Paper Sensor from the rear, and disconnect the **Connector**.



- (6) 2 Screws (19).
- (7) Remove the Catch Magnet (730).

2.14 High Voltage Power Supply (HVPS) (506)





- (1) Remove the Front Cover (105) (Refer to 2.3).
- (2) 1 Screw (19).
- (3) Pull out the High Voltage Power Supply (HVPS) (506).
- (4) Disconnect **Connector CN39** on the High Voltage Power Supply (HVPS).

- (5) 1 Screw (19).
- (6) Release 2 Latch Hooks.
- (7) Remove the High Voltage Terminal Cover (503).

2.15 Screw Identification Template

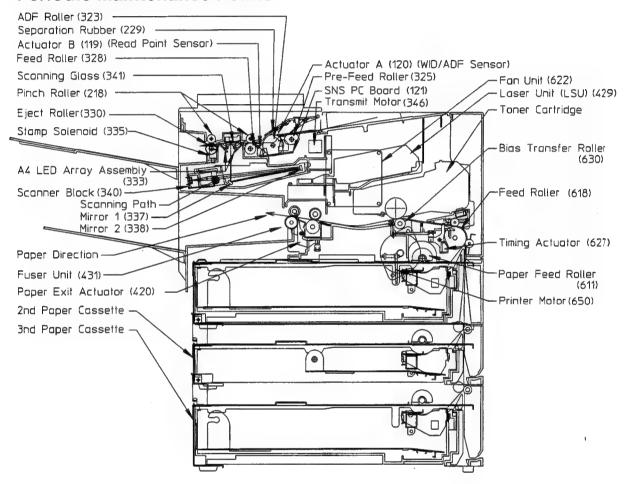
Ref No.	Part No.	Figure	Remark
19	XTB3+8J	(2) [] 11111 1	Screw
1Q	XYN3+F10		Screw
1Y	XTB3+10J	(†) []mmn	Screw
23	XYN3+F8		Screw
35	XYN4+F6		Screw
430	DZPF000001		Nut
4N	XSN3+W8FC		Screw
5Y	XUC4		E-Ring
5Z	XUC6		E-Ring
652	DZPK000001		Washer
7B	XTB26+6J	(†) (]###n	Screw
В1	DZPB000007	(†) (] ****	Screw
B5	XSB4+10BN	(+) (1)	Screw
CB	XTW3+8SFC		Screw
_	DZPA000013	(2) []mm	Red Colored Screw

3 Maintenance, Adjustments and Check Points

3.1 Required Tools

No.	Tool	No.	Tool
1	Soft Cloth	7	Pliers
2	Isopropyl Alcohol	8	Cotton Swab
3	Phillips Screwdriver (#2)	9	Brush
4	Stubby Phillips Screwdriver (#2)	10	KS-660 - Conductive Grease
5	Blade-tip Screwdriver (3/32 in)	11	Molykote EM-50L Grease (Dow Corning)
6	Tweezer		

3.2 Periodic Maintenance Points



3.3 Periodic Maintenance Check List

The chart outlined below is a general guideline for maintenance. The example list is for an average usage of 50 transmitted and received documents per day. Needless to say, the environmental conditions and actual use will vary these factors.

The chart below is for reference only.

Transmitting mechanism parts	Cleaning		Replacement / Adjustment	
	Cycle	Method	Cycle	Method
ADF Roller (323)	3 months	Page 27	3-5 years(30,000 documents)	Page 30
Separation Rubber (229)	3 months	Page 21	1-3 years(10,000 documents)	Page 21
Pre-Feed Roller (325)	3 months	Page 27	3-5 years(30,000 documents)	Page 30
Mirrors (337 and 338)	12 months	Page 28	-	Page 28
Verification Stamp (336)	-	-	5,000 documents	Page 31
Feed Roller (328)	3 months	Page 27	3-5 years(30,000 documents)	Page 30
ADF Transmit Motor (346)	•	-	5 years	Page 30
Eject Roller (330)	3 months	Page 27	3-5 years(30,000 documents)	Page 30
Latch (302)	12 months	-	-	•
Toner Cartridge	•	-	10,000 pages (See Note)	-
Feed Roller (618)	12 months or 10,000 documents	Alcohol	-	Page 41
Clutch Gear Assembly (660)	12 months or 10,000 documents	Alcohol	-	Page 41
Paper Feed Solenoid (744)	12 months or 10,000 documents	Alcohol	-	Page 41
Bias Transfer Roller (630)	12 months or 10,000 documents		30,000 documents	Page 33
Fuser Unit (431)	When replacing Print Cartridge	Cleaning chart	50,000 documents	Page 35
Paper Feed Roller (746)	12 months or 10,000 documents	Alcohol	30,000 documents	Page 41
Fuser Lamp (408)	-	-	50,000 documents or 2-5 years	Page 35
Fuser Roller (414)	12 months or 10,000 documents	Alcohol	-	Page 37
Pressure Roller (409)	12 months or 10,000 documents	Alcohol	-	Page 37
Fan (622)	•	-	3-5 years	Page 41
Printer Motor (650)	-	•	5 years	Page 39

Note

The number of pages is based on the ITU-T Image No. 1 test chart at Standard resolution and Multi-Copy mode.

3.4 Updating the Firmware

Unlike other machines with removable EPROM (Erasable Programmable ROM), this machine is equipped with an F-ROM (Flash ROM). F-ROM offers the flexibility of quick and easy firmware updates, creation of a master firmware card, backup and restore of firmware and machine parameters.

The following is the basic procedure to update the firmware of the machine. The details are described in the Firmware Update Kit User's Guide. (Order No.: UE-406053 and UE-406055)

3.4.1 Creating a Master Firmware Card

A. Utilizing the Firmware Update Kit.

- 1. Install the Firmware Update Kit.
- 2. Install a Flash Memory Card (2 MB or higher) into the machine.
- 3. Follow the instructions included in the Firmware Update Kit User's Guide.

B. Copy the Firmware from an Existing Machine

- 1. Turn the Power Switch to the OFF (O) position.
- 2. Install a Flash Memory Card (2 MB or higher) into the machine.
- 3. Turn the Power Switch to the ON (I) position.
- 4. Perform the Service Mode 9-2 (Firmware Backup).
- 5. The firmware is copied into the Flash Memory Card.
- 6. After the backup is completed, press "STOP" to return to standby.
- 7. Turn the Power Switch to the OFF (O) position.
- 8. Remove the Master Firmware Card that you just created from the machine.
- 9. Turn the Power Switch to the ON (I) position.
- 10. Use this Master Firmware Card to update the firmware on other machines.

3.4.2 Updating the Firmware using the Master Firmware Card

- 1. Before starting, print the Fax and Function Parameter Lists.
- 2. Turn the Power Switch to the OFF (O) position.
- 3. Install the appropriate Master Firmware Card into the machine.
- 4. Turn the Power Switch to the ON (I) position.
- 5. Perform the Service Mode 9-1 (Firmware Update).
- 6. The firmware is copied into the machine.
- 7. After the update is completed, the machine reboots itself and returns to standby.
- 8. Perform the Service Mode 6 (Parameter Initialization).
- 9. Turn the Power Switch to the OFF (O) position.
- 10. Remove the Master Firmware Card from the machine.
- 11. Turn the Power Switch to the ON (I) position.
- 12. Reprogram the Fax and/or Function Parameters according to the lists printed in Step 1 above if the settings are other than factory default.

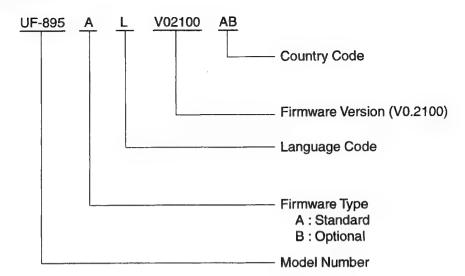
3.4.3 Erasing the Master Firmware Card

- 1. Turn the Power Switch to the OFF (O) position.
- 2. Install the Master Firmware Card into the machine.
- 3. Turn the Power Switch to the ON (I) position.
- 4. Perform the Service Mode 9-5 (PC → Flash Card).
- 5. The firmware is erased from the card and the following message is shown on the display:

READY TO PROGRAM
PRESS SET TO START

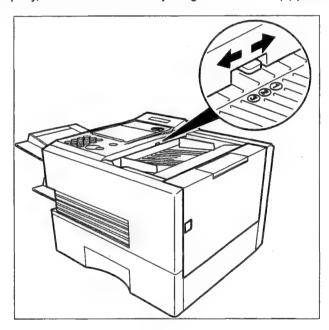
- 6. Press "STOP" twice to return to standby.
- 7. Turn the Power Switch to the OFF (O) position.
- 8. Remove the blank Flash Memory Card from the machine.
- 9. Turn the Power Switch to the ON (I) position.

3.4.4 Firmware Version



3.5 ADF Pressure

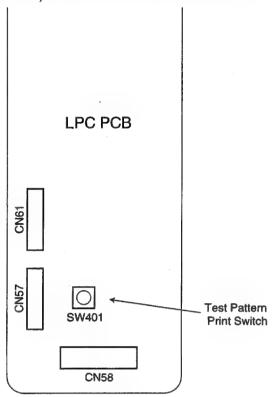
- When documents multi-feed, move the pressure Adjusting Lever to the 3 (H) position.
- When documents do not feed properly, move the Pressure Adjusting Lever to the 1 (L) position.



Position	Pressure of separator	Situation
1 (L)	Low	When the documents misfeed
2 (M)	Medium	Normal Position (Factory set position)
3 (H)	High	When the documents multi-feed

3.6 Printer Unit Test

- 1. You can check the printer with the FCB PCB disconnected from the unit (Sections 2.5).
- 2. Press the Test Pattern Print Switch (SW401) on the LPC PCB as shown below.

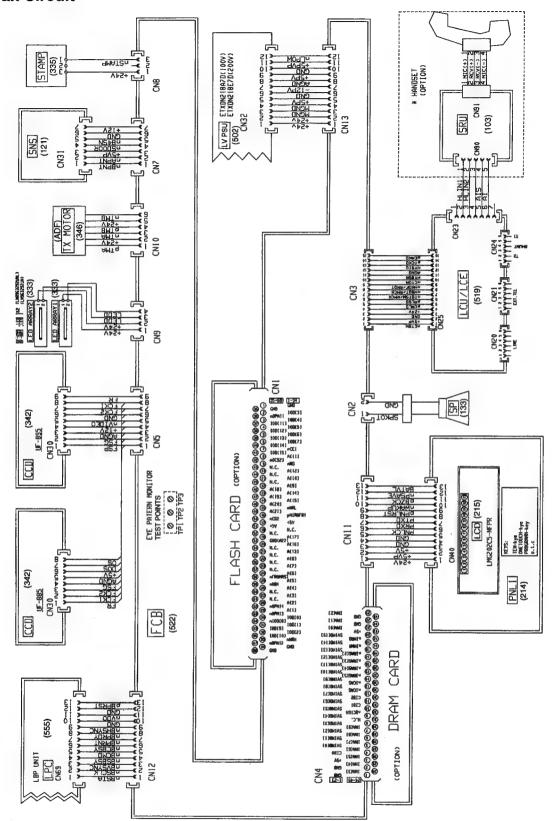


	Pattern	Selection method	Stop method
Pattern 0 (400dpi)	1-dot Horizontal line	Switch ON for less than 2 seconds	Switch ON again
Pattern 1 (600dpl)	1-dot Horizontal line	Switch ON for 2 seconds or more	Switch ON again
	Blank page	Switch ON for 2 seconds or more while printing out	Switch ON again
	,	a Pattern 1.	

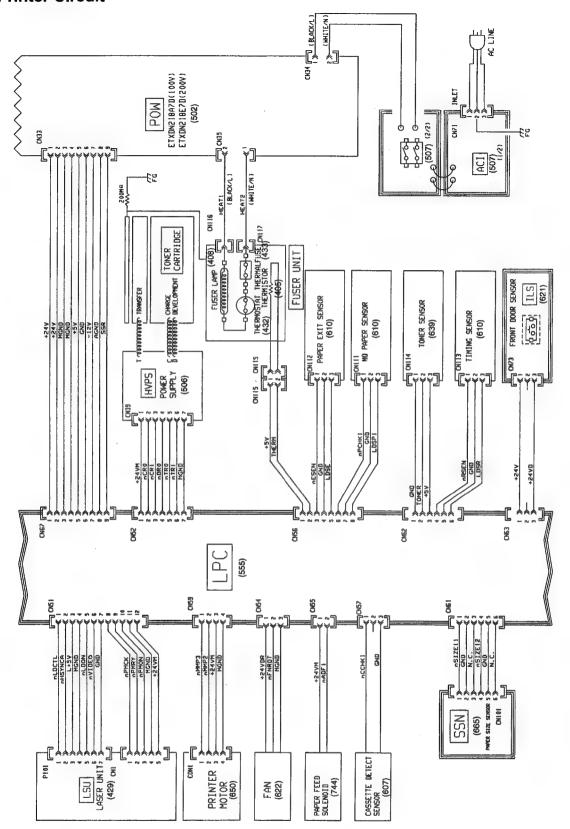
3. The Test Pattern prints. Check the print Quality.

3.7 General Circuit Diagram

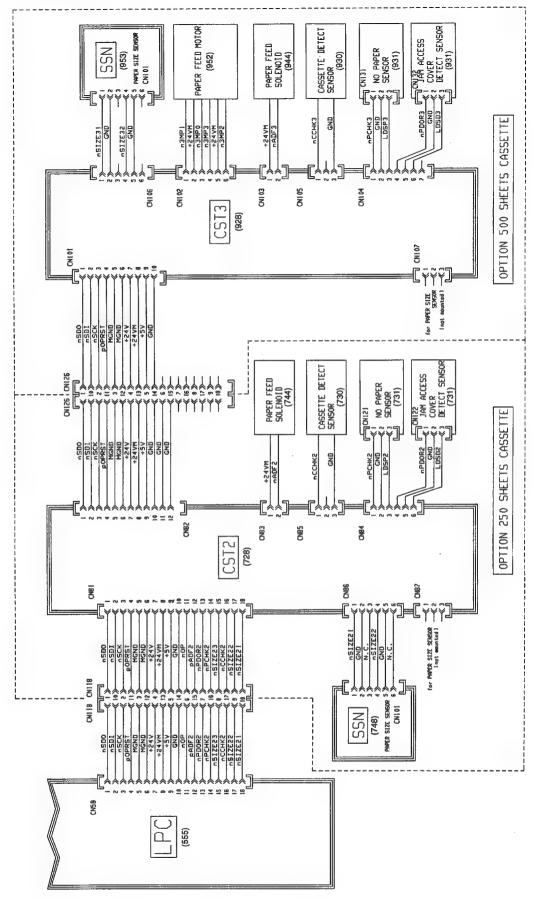
3.7.1 Fax Circuit



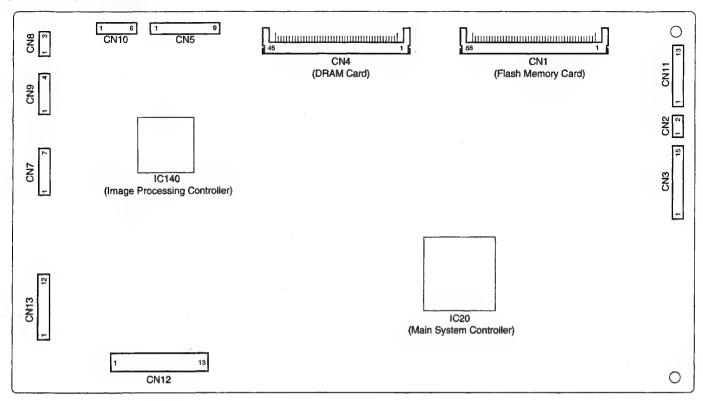
3.7.2 Printer Circuit



3.7.3 Option Cassette Circuit



3.8 FCB PCB



Pin No.	Signal Name	Destination	Signal Waveform	Function
CN1-1	GND	Flash Memory Card		Ground
			·	
			0V	
CN1-2	IODI31	Flash Memory Card		Data Signal
01112			5V(H)	
			5V(H) 0V(L)	
			0.00	
CN1-3	IOD[4]	Flash Memory Card	5V(H)	Data Signal
			5V(H) OV(L)	
			0V(L) — 1 — 1	
CN1-4	IOD[5]	Flash Memory Card	5V(H)	Data Signal
			5V(H) 0V(L)	
	,		0V(L)	
CN1-5	IOD[6]	Flash Memory Card		Data Signal
0141-5		lash Memory Card	5V(H)	Data Orginal
		}	OV(L)	
			J (()	
CN1-6	IOD[7]	Flash Memory Card	5V(H)	Data Signal
			5V(H)	
			0V(L)	
CN1-7	+5V(*CE1)	Flash Memory Card	+5V	+5 VDC Power Supply
	}			·
CN1-8	A[11]	Flash Memory Card		Address Signal
			3V(H)	
			0V(L)	
CN1-9	nRD	Flash Memory Card	3V(H)	Low Enable
			0V(L)	
CN1-10	A[12]	Flash Memory Card	3V(H)	Address Signal
			0V(L)	
CN1-11	A[10]	Flash Memory Card		Address Signal
			3V(H)	
			0V(L)	
ONE	T/S		, ,	
CN1-12	A[9]	Flash Memory Card	3V(H)	Address Signal
			0V(L)	
	L	<u></u>	<u> </u>	

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN1-13	A[14]	Flash Memory Card	3V(H)	Address Signal
			34(1)	
			0V(L)	
CN1-14	Λ(15)	Flash Memory Card		Address Signal
CIVITA	المراني	riasii weinory card	3V(H)	Address Signal
			0V(L)	
CN1-15	nWRL	Flash Memory Card	3V(H)	Low Enable
			0V(L)	
ONIT 16	-MIDOED4	Floob Momon, Cond		High Fachia
CN1-16	pMIRQFR1	Flash Memory Card	+3V	High Enable
CN1-17	+5V	Flash Memory Card	.51	+5 VDC Power Supply
			+5V	
0111 10				
CN1-18	+12V	Flash Memory Card	+12V	+12 VDC Power Supply
CN1-19	A[17]	Flash Memory Card	2)//L/)	Address Signal
1			3V(H)	
			0V(L) —	
CNH 20	AT4C1	Flash Memory Card		Address Signal
CN1-20	A[16]	riasii Memory Card	3V(H)	Address Signal
		1	0V(L)	
CN1-21	A[13]	Flash Memory Card	3V(H)	Address Signal
			34(1)	
			OV(L) —	
CN1-22	A(0)	Flash Memory Card		Address Signal
CIVI-22	A[0]	riasii Meniory Card	3V(H)	Address Signal
			0V(L)	
CN1-23	A[7]	Flash Memory Card	3V(H)	Address Signal
			3v(r)	
			0V(L) —	
CN1-24	AIGI	Flash Memory Card		Address Signal
ON 1-24	A[0]	riasii wemory Card	3V(H)	Address Signal
			0V(L)	
	L	L	·	·

Pin No.		Destination	Signal Waveform	Function
CN1-25	A[5]	Flash Memory Card	3V(H)	Address Signal
			oV(L)	
CN1-26	A[4]	Flash Memory Card	3V(H)	Address Signal
			oV(L)	
CN1-27	A[3]	Flash Memory Card	3V(H)	Address Signal
			0V(L)	
CN1-28	A[2]	Flash Memory Card	3V(H)	Address Signal
			0V(L)	
CN1-29	A[1]	Flash Memory Card	3V(H)	Address Signal
			0V(L)	
CN1-30	IOD[0]	Flash Memory Card	5V(H) OV(L)	Data Signal
			OV(L)	
CN1-31	IOD[1]	Flash Memory Card	5V(H) OV(L)	Data Signal
ON 1 60			OV(L)	
CN1-32	IOD[2]	Flash Memory Card	5V(H) OV(L)	Data Signal
CN1-33	OWPH	Flash Memory Card		Law Frahle
CN1-33	nven	Flash Memory Card	3V(H)	Low Enable
CN1-34	CND	Flash Memory Card	0V(L)	Const
0141-34	GND	Plasti Methory Card		Ground
CN1-35	GND	Flash Memory Card	OV	Cround
VIVI-03		i iash wienory Caru		Ground
CN1-36	nOPM11	Flash Memory Card	0V	H: Cord Not Installed 1. On the Blad
2.11 00	III WIII	. asi monory card	+5V(H)	H: Card Not Installed L: Card Insa led
			0V(L)	

Pin No.		Destination	Signal Waveform	Function
CN1-37	IOD[11]	Flash Memory Card	5V(H)	Data Signal
CN1-38	IOD[12]	Flash Memory Card	0V(L) 1	Data Signal
			5V(H) 0V(L)	
CN1-39	IOD[13]	Flash Memory Card		Data Signal
			5V(H) 0V(L)	
CN1-40	IOD[14]	Flash Memory Card	5V(H)	Data Signal
			0V(L)	
CN1-41	IOD[15]	Flash Memory Card	5V(H)	Data Signal
CN1-42	nCS23	Flash Memory Card	5V(H)	Low Enable
			ov(L)	
CN1-43	NC			Not Used
CN1-44	RSV	Flash Memory Card		Not Used
CN1-45	BSV	Flash Memory Card		Not Used
CIN 1-45	nov	i asii wellioiy Calu		1101 0304
CN1-46	A[18]	Flash Memory Card	3V(H)	Address Signal
•			0V(L)	
CN1-47	A[19]	Flash Memory Card	3V(H)	Address Signal
			OV(L)	
CN1-48	A[20]	Flash Memory Card	3V(H)	Address Signal
			0V(L)	

Pin No.		Destination	Signal Waveform	Function
CN1-49	A[21]	Flash Memory Card	3V(H)	Address Signal
			34(1)	
			0V(L)	
CN1-50	nCS2	Flash Memory Card	5V(H)	Address Signal
			07(1)	
			0V(L) —	
CN1-51	. 51/	Flash Memory Card		+5 VDC Power Supply
CIVITO	+5 v	riasii wiciilory Gard	+5V	To vide i dupply
CN1-52	+12V	Flash Memory Card	101	+12 VDC Power Supply
			+12V	
CN1-53	GND(A22)	Flash Memory Card		Ground
			l l	
			l l	
			0V	
				•
CN1-54	NC			Not Used
~ CN1-56				
OIT SE			l l	
CN1-57	Dev	Flash Memory Card		Not Used
UN1-U1	Indv	Plasti Welliory Gara		INOC USEU
		[
			!	
CN1-58	nFROMRST	Flash Memory Card	3V(H)	Low Enable
			34(11)	
			0V(L)	
			,	
CN1-59	NC			Not Used
		1		
			•	
CN1-60	RSV	Flash Memory Card		Not Used
CN1-61	NO			Not Used
CN1-01	NC	1		Not Usea
			,	
CN1-62	nOPM14	Flash Memory Card		Flash Memory Card ID
0	TO THIS	ladii moillory out	5V	Tiasif Memory Card ID
			or	
			0V	
			<u></u>	

Signal Name	Destination	Signal Waveform	Function
nOPM13	Flash Memory Card	5V or 0V	Flash Memory Card ID
nIOD[8]	Flash Memory Card	5V(H) OV(L)	Data Signal
[e]dOi	Flash Memory Card	5V(H) 0V(L)	Data Signal
IOD[10]	Flash Memory Card	5V(H) 0V(L)	Data Signal
nOPM12	Flash Memory Card	5V or 0V	Flash Memory Card ID
GND	Flash Memory Card	0V	Ground
	nOPM13 nIOD[8] IOD[10]	nIOD[8] Flash Memory Card IOD[9] Flash Memory Card IOD[10] Flash Memory Card nOPM12 Flash Memory Card	Top Flash Memory Card 5V Or

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN2-1	SPKOT	Speaker	1V (Max) -1V (Max)	Line Signal, Key Tone, Ringer
CN2-2	GND	Speaker	0V	Ground

Pin No.	Signal Name	Destination	Signal Waveform	Function
	nETSW	LCU/LCE PCB CN25-1	1	Not Used
			ı .	
			ı	
			ı	
CN3-2	±5VP	LCU/LCE PCB CN25-2		+5 VDC Power Supply
0.10 _	7041	200/202 / 05 0	+5V	10 155 1 51151 5255.
			1	
			ı	
			1	
CN3-3	GND	LCU/LCE PCB CN25-3	· · · · · · · · · · · · · · · · · · ·	Ground
			i	
			i	
			0V	
			· · · · · · · · · · · · · · · · · · ·	
CN3-4	+24V	LCU/LCE PCB CN25-4	1241	+24 VDC Power Supply
			+24V	
			l ·	
1			i	
CN3-5	pCMLD	LCU/LCE PCB CN25-5		Line Switching Relay Drive
0.100	POWER	200,202, 00 020	+5V (H) FAX Side	and omining rising and
			OV (L)	
			Telephone Side	
		THE STREET ON OF A	•	
CN3-6	pPLSD	LCU/LCE PCB CN25-6	EV/LIV Make	Pulse Dial Relay Drive
}			+5V (H) Make	
			OV. (I.) Brook	
			0V (L) Break	
			i	
CN3-7	nTSTSW/RMCK	LCU/LCE PCB CN25-7	1	Not Used
ļ			i	
			·	
			i '	
CN3-8	nHSDT/RMCS	LCU/LCE PCB CN25-8	·	Handset Off-Hook Detection Signal
			+5V (H) On Hook	
			,	
			Off Hook 0V (L)	
2010	nHKOF/RMDT	TO SUIT OF DOD CNOS O	<u> </u>	E
CN3-9	NHKOF/HMD1	LCU/LCE PCB CN25-9	+5V (H) On Hook	External Phone Off-Hook Detection Signal (Phone Line must be connected.)
			+57 (1)	(Frione Line must be connected.)
			Off Hook OV (L)	
			Off Hook 0V (L)	
CN3-10	nCTON	LCU/LCE PCB CN25-10		Ring Detection Signal
			, · · · · · · · · · · · · · · · · · · ·	
			H= Standby Mode, L= Ring in	
CN3-11	HYBSR	LCU/LCE PCB CN25-11		Line Transformer Input Signal
010 10	2010	CLUB OF BOD ONOF 40		
CN3-12	GND	LCU/LCE PCB CN25-12		Ground
				·
			0V	

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN3-13	HYSIG	LCU/LCE PCB CN25-13		Not Used
CN3-14		LCU/LCE PCB CN25-14		Not Used
CN3-15	PEAKD	LCU/LCE PCB CN25-15		Not Used

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN4-1		DRAM Card		Ground
			0V	
CN4-2	GND	DRAM Card		Ground
				:
			OV	
CN4-3	+5V	DRAM Card		+5 VDC Power Supply
			+5V	To the tower supply
			}	
CN4-4	CID0	DRAM Card		H: Card Not installed L: Card installed
			+5V(H)	
			İ	
			0V(L)	
CN4-5	5VIMD[0]	DRAM Card	5V(H)	Data Signal
			0V(L)	
			0V(L) —	
CN4-6	5VIMD[1]	DRAM Card		 Data Signal
			5V(H)	- Control of the cont
			0V(L)	
CN4-7	5VIMD[2]	DRAM Card	5V(H)	Data Signal
			0.44	
			0V(L)	•
CN4-8	5VIMD[3]	DRAM Card		Data Signal
			5V(H)	Data Olgital
	·			
			0V(L)	
CN4-9	5VIMD[4]	DRAM Card	5V(H)	Data Signal
			37(1)	
			0V(L) —	
CN4-10	5VIMD[5]	DRAM Card		Data Classic
0144-10		Dhaw Card	5V(H)	Data Signal
			0V(L)	
			(_,	
CN4-11	5VIMD[6]	DRAM Card	EV/10	Data Signal
			5V(H)	
			0V(L) —	
ONI				•
UN4-12	5VIMD[7]	DRAM Card	5V(H)	Data Signal
			0/(1)	
			0V(L)	
		<u> </u>		

Pin No.		Destination	Signal Waveform	Function
CN4-13	5VIMD[8]	DRAM Card	5V(H)	Data Signal
			0V(L)	
			0V(L) —	
CN4-14	5VIMD[9]	DRAM Card	E1/11)	Data Signal
			5V(H)	
			0V(L)	
CN4.15	5VIMD[10]	DRAM Card		Data Signal
0144-13	SVIVID[10]	DI IAW Card	5V(H)	Data Signal
			0V(L)	
CN4-16	5VIMD[11]	DRAM Card	5V(H)	Data Signal
			0V(L)	
CN4-17	5VIMD[12]	DRAM Card	5V(H)	Data Signal
			0V(L)	
			0V(L) ==	
CN4-18	5VIMD[13]	DRAM Card	57/10	Data Signal
			5V(H)	
			0V(L)	
CN4-19	5VIMD[14]	DRAM Card		Data Signal
0114 10	OVIIIID[14]	Divini Cara	5V(H)	Data Oigna
			0V(L) —	
ON14 00	EL CONTROLLES	DDAM Cood		54.0
CN4-20	5VIMD[15]	DRAM Card	5V(H)	Data Signal
			0V(L)	
CN4-21	IMA[0]	DRAM Card	3V(H)	Address Signal
			0V(L)	
			0V(L)	
CN4-22	IMA[1]	DRAM Card	2.40.0	Address Signal
			3V(H)	, and the second
	Control of the Contro		0V(L)	
CN4-23	IMATO	DRAM Card		Address Cignal
C144-23	IIVIA[2]	DRAW Card	3V(H)	Address Signal
			0V(L)	
CN4-24	IMA[3]	DRAM Card	3V(H)	Address Signal
	·			
			0)(1)	
			0V(L)	
	L			

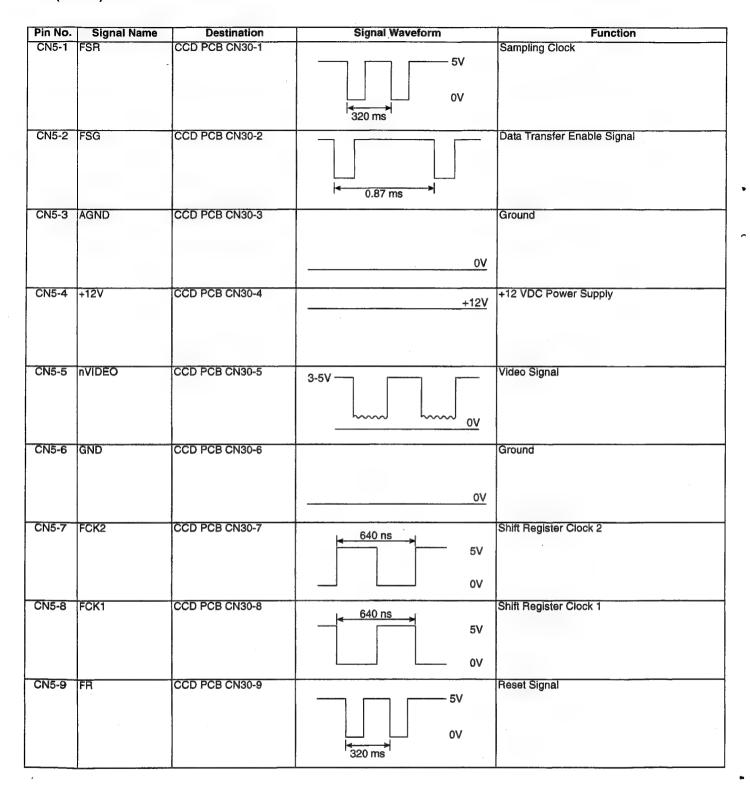
Pin No.	Signal Name	Destination	Signal Waveform	Function
CN4-25	IMA[4]	DRAM Card	3V(H)	Address Signal
			37(11)	
			0V(L) — ———	
CN4-26	INAACET	DRAM Card		Address Signal
CN4-26	IMA[5]	DRAW Card	3V(H)	Address Signal
			0V(L)	
			(-/	
CN4-27	IMA[6]	DRAM Card	0)//11/0	Address Signal
			3V(H)	
			0V(L)	
CN4-28	IMA[7]	DRAM Card	3V(H)	Address Signal
			0V(L)	
			0V(L) —	
CN4-29	IMAI81	DRAM Card		Address Signal
			3V(H)	
			0V(L)	
			•	
CN4-30	IMA[9]	DRAM Card	3V(H)	Address Signal
			0V(L) —	
CN4-31	NC			Not Used
0114-51	INC.			Not osed
CN4-32	nDC16M	DRAM Card		DRAM Card ID
			<u>5</u> V(H)	
			or	
			0V(L)	
CNI4 OO	0/54	DD 111 O		
CN4-33	CIDI	DRAM Card	5V(H)	DRAM Card ID
			or	
			OV(L)	
CN4-34	CID2	DRAM Card		DRAM Card ID
			<u>5V(H)</u>	
			or	
			OV(L)	
CN4-35	nICAS	DRAM Card		Low Enable
			3V(H)	
			0V(L)	
CN4-36	nICAS	DRAM Card		I ow Enable
0144-20	IIICAG	DOMINI CATO	3V(H)	Low Enable
			01//1	
			OV(L)	
	1	<u> </u>	<u> </u>	L

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN4-37	nIRAS[5]	DRAM Card		Low Enable
			3V(H)	
			OV(L)	
) V(L)	
CN4-38	nIRAS[4]	DRAM Card		Low Enable
			3V(H)	
			0V(L)	
			OV(L)	
CN4-39	niRAS[3]	DRAM Card		Low Enable
•			3V(H)	
			0V(L)	
			OV(L)	
CN4-40	nIRAS[2]	DRAM Card		Low Enable
			3V(H)	
			OV(L)	
CN4-41	nIMWR	DRAM Card		Low Enable
			3V(H)	
			OV(L)	
			OV(L)	
CN4-42	niMRD	DRAM Card		Low Enable
			3V(H)	
		•	OV(L)	
			1	
CN4-43	+5V	DRAM Card		+5 VDC Power Supply
			+5V	
CN4-44	GND	DRAM Card		Ground
			ov	
CN4-45	GND	DRAM Card		Ground
			0V	
			<u> </u>	·

CN5 (UF-885)

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN5-1	FR	CCD PCB CN30-1	5V 0V	Reset Signal
CN5-2	FCK1	CCD PCB CN30-2	5V 0V	Shift Register Clock 1
CN5-3	FCK2	CCD PCB CN30-3	5V 0V	Shift Register Clock 2
CN5-4	FSG	CCD PCB CN30-4	2.5 ms	Data Transfer Enable Signal
CN5-5	AGND	CCD PCB CN30-5	0V	Ground
CN5-6	+5V	CCD PCB CN30-6	+5V	+5 VDC Power Supply
CN5-7	DOS	CCD PCB CN30-7	3-5V 0V	Compensation Signal (Analog Signal)
CN5-8	os	CCD PCB CN30-8	3-5V 0V	Video Signal

CN5 (UF-895)



Pin No.	Signal Name	Destination	Signal Waveform	Function
CN7-1		SNS PCB CN31-1	+5V(H) No Document	Read Point Detection
			Document 0V(L)	
CN7-2	nAPNT	SNS PCB CN31-2	+5V(H) No Document Document OV(L)	ADF Document Detection
CN7-3	+5VP	SNS PCB CN31-3	+1.2V	+5 VDC Power Supply (Connector Unplugged) +1.2 VDC (Connector Plugged In)
CN7-4	nSDOOR	SNS PCB CN31-4	+5V(H) Door Open	Tx Door Detection
			Door Closed 0V(L)	
CN7-5	nB4SN	SNS PCB CN31-5	+5V(H) No Document B4 Width Document OV(L)	B4 Width Document Detection
CN7-6	GND	SNS PCB CN31-6		Ground
ONIZZ	101/	ONE DCD CNG1 7	0V	+12 VDC Power Supply (Connector
CN7-7	+12V	SNS PCB CN31-7	+3.5V	Unplugged) +3.5 VDC (Connector Plugged In)
	1	1		

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN8-1	+24V	Stamp	+24V	+24 VDC Power Supply
CN8-2	NC			Not Used
CN8-3	nSTAMP	Stamp	Stamp Off +24V	Stamp Driver Signal
			Stamp On 0V	

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN9-1	+24V	LED Array 1-1	+24V	+24 VDC Power Supply
CN9-2	+24V (For UF-895 only)	LED Array 2-1	+24V	+24 VDC Power Supply
CN9-3	LEDD (For UF-895 only)	LED Array 2-2	LED Off 24V (H) LED On 0V (L)	LED Lamp +24 VDC (Connector Unplugged) +12.5 VDC (Connector Plugged In)
CN9-4	LEDD	LED Array 1-2	24V (H)	LED Lamp +24 VDC (Connector Unplugged) +12.5 VDC (Connector Plugged In)

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN10-1		Transmit Motor	+24V 0V	Stepping Signal
CN10-2	+24V	Transmit Motor	+24V	+24 VDC Power Supply
CN10-3	nTMA	Transmit Motor	+24V 0V	Stepping Signal
CN10-4	рТМВ	Transmit Motor	+24V	Stepping Signal
CN10-5	+24V	Transmit Motor	+24V	+24 VDC Power Supply
CN10-6	пТМВ	Transmit Motor	+24V 0V	Stepping Signal

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN11-1	+24V	PNL PCB CN40-1		Not Used
			_	
			·	
CN11-2	+5VP	PNL PCB CN40-2		+5 VDC Power Supply
			+5V	
		J		
CN11-3	+5V	PNL PCB CN40-3		+5 VDC Power Supply
0	1.01		+5V	,
CN11-4	CND	PNL PCB CN40-4		Ground
CIVIII-4	GIAD	FINE FOR CIN40-4		around
			01/	
			0V	
ONIA E	CNE	DAIL DOD CALAGE		Constant
CN11-5	GND	PNL PCB CN40-5		Ground
			OV	
CN11-6	pPNLCK	PNL PCB CN40-6	,,,	Serial Data Transfer Clock
		i		
CN11-7	PNLRXD	PNL PCB CN40-7		Reception Data
			5V	
		[
			ov	•
CN11-8	PNLTXD	PNL PCB CN40-8		Transmission Data
			5V	
		1	ov	
CN11-9	pPNLRST	PNL PCB CN40-9		Panel Reset Signal (Reset by 0V)
l			5V	
			ov	
CN11-10	nWAKUP	PNL PCB CN40-10		Power Saver Reset Signal
			5V	
			ov	
CN11-11	pBZCK	PNL PCB CN40-11		Buzzer Clock
			7 F7 F7 F5V	
			ov	
CN11-12	nPSAVE	PNL PCB CN40-12		Power Saver Enable
			Standby 5V	
			5 v	
]		Power Saver	
			ov	
	i	1		

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN11-13	BATVL	PNL PCB CN40-13		Battery Voltage
			0V ∼ +3V	
1				

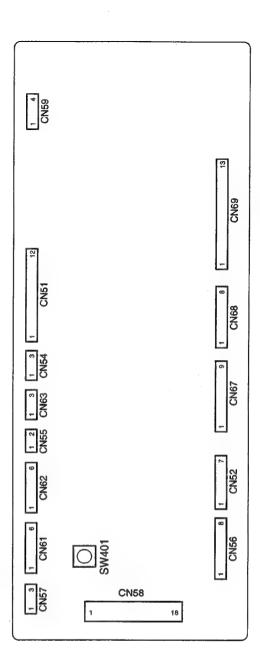
Pin No.	Signal Name	Destination	Signal Waveform	Function
CN12-1	nBSTA	LPC PCB CN69-1	+5V(H)	Serial Interface Data Signal
			. 0V(L)	
CN12-2	nBSCLK	LPC PCB CN69-2	+5V(H) ov(L)	Serial Interface Synchronization Clock
CN12-3	nBVSYNC	LPC PCB CN69-3	+5V(H)	V-SYNC for Video Signal
			OV(L)	
CN12-4	nBSBSY	LPC PCB CN69-4	+5V(H)	Serial Interface Enable Signal
:			OV(L)	
CN12-5	nBCMD	LPC PCB CN69-5	+5V(H)	Serial Interface Command Data Signal
			OV(L)	
CN12-6	nBCBSY	LPC PCB CN69-6	+5V(H)	 Serial Interface Enable Signal
			0V(L)	
CN12-7	nBPRNT	LPC PCB CN69-7	+5V(H) (Standby)	Print Request Signal
			0V(L) (Active)	
CN12-8	nBPRDY	LPC PCB CN69-8	+5V(H)	Printer Ready Signal
			OV(L)	
CN12-9	nBHSYNC	LPC PCB CN69-9	+5V(H)	H-SYNC for Video Signal
			OV(L)	
N12-10	GND	LPC PCB CN69-10		Ground
			0V	

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN12-11	nVDO	LPC PCB CN69-11	+5V(H) White 0V(L) Black	Laser Drive Print Data Signal
CN12-12	GND	LPC PCB CN69-12	0V	Ground
CN12-13	PBPRST	LPC PCB CN69-13	+5V(H) OV(L)	Printer External Reset Signal

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN13-1	+24V	POW PCB CN32-1	+24V	+24 VDC Power Supply
			T24V	
				,
CN13-2	+24V	POW PCB CN32-2	+24V	+24 VDC Power Supply
			+240	
CN13-3	MGND	POW PCB CN32-3		Ground
			0V	
		-		
CN13-4	MGND	POW PCB CN32-4		Ground
51110-4	Marab	100000024		diodila
			-14	
		1-	ov	
51145 E		DOW DOD ON CO.		
CN13-5	+5V	POW PCB CN32-5	+5V	+5 VDC Power Supply
CN13-6	GND	POW PCB CN32-6		Ground
			0V	
		-		
CN13-7	-12V	POW PCB CN32-7		-12 VDC Power Supply
			101	
		-	-12V	
CN13-8	AGND	POW PCB CN32-8		Ground
110-0	AGNO	. 311 1 00 01402-0		Ground
			A1	
		-	<u>0V</u>	
20120 0	£1/	DOW DOD CNICO C		LEVOO Pauva Comple
CN13-9	+5V	POW PCB CN32-9	÷5V	+5 VDC Power Supply
N13-10	GND	POW PCB CN32-10		Ground
				·
			ov	
N13-11	+5VP	POW PCB CN32-11		+5 VDC Pilot Power Supply, that provides
	. = •,	_	+5V	power to the active components during the
				Sleep Mode.
				<u> </u>

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN13-12	nLPOW	POW PCB CN32-12		Power Saver Enable
			Standby 2.41	
				`
	:		Power Saver 0V	

3.9 LPC PCB



Pin No.		Destination	Signal Waveform	Function
CN67-1	+24V	POW PCB CN33-1	+24V	+24 VDC Power Supply
			TL4V	
01107.0	6417	DOW DOD CNICO O		LOAMOC Downs Supply
CN67-2	+24V	POW PCB CN33-2	+24V	+24 VDC Power Supply
			· ·	
CN67-3	MGND	POW PCB CN33-3		Ground
			0V	
CN67-4	MGND	POW PCB CN33-4		Ground
			21/	
			OV	
CN67-5	+5V	POW PCB CN33-5		+5 VDC Power Supply
0.10. 0			+5V	, and the same of
CN67-6	GND	POW PCB CN33-6		Ground
			OV	
CN67-7	-12V	POW PCB CN33-7		-12V VDC Power Supply
51101 7	1.24			1.2. 1.30.1 0.10.1 0.10.1
			-12V	
CN67-8	AGND	POW PCB CN33-8		Ground
			ov	
CN67-9	ISSB	POW PCB CN33-9		Fuser Lamp Control Signal
5,107-8		. 511 1 05 01400-3	+24V (H)	dos Early Control Olynai
			LAMP OFF	
			LAMP ON	
•			0V (L)	

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN51-1	nLDCTL	LSU P101-1		Laser Power Sample/Hold Timing Si gnal 1 ms (16 dot) 0.652 ms (600 dpi)
CN51-2	nHSYNC	LSU P101-2		H-SYNC Video Signal 1 ms (16 dot) 0.652 ms (600 dpi)

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN51-3	L+5V	LSU P101-3	+5V (H) PRINTING OV (L)	+5V Power Supply for Laser Drive Circuit
CN51-4	GND	LSU P101-4	3.7 (2)	Ground
ONE -	- PON	I CIU DAGA F	0V	Language Construction of the Construction of t
CN51-5	NLDON	LSU P101-5	+5V (H) OFF ON OV (L)	Laser Control Signal
CN51-6	nVIDEO	LSU P101-6		Video Data L=Black, H=White
CN51-7	GND	LSU P101-7		Ground
			OV	
CN51-8	nPMCK	LSU CN1-1	+5V(H) oV(L)	Polygon Motor Clock 3.3 KHz (16 dot) 5.1 KHz (600 dpl)
CN51-9	nPMRY	LSU CN1-2	+5V (H) Not Ready OV (L)	Polygon Motor Ready Signal
CN51-10	пРМОМ	LSU CN1-3	+5V (H) OFF ON OV (L)	Polygon Motor Control Signal
ON51-11	MGND	LSU CN1-4		Frame Ground
CN51-12	+24VM	LSU CN1-5	+24V (H)	+24 VDC Power Supply

Pin No.		Destination	Signal Waveform	Function
CN52-1	+24VM	HVPS CN39-1	+24V (H)	+24 VDC Power Supply
,			OV (L)	
CN52-2	nCR0	HVPS CN39-2	+24V (H)	Charge Control AC Output
			0V (L)	
CN52-3	nCR1	HVPS CN39-3	+24V (H)	Charge Control DC Output
			0V (L)	
CN52-4	nDR0	HVPS CN39-4	+24V (H)	Development Control AC+DC Output
			0V (L)	
CN52-5	nTR0	LSU P101-5	+24V (H)	Transfer Control Cleaning Output
			0V (L)	
CN52-6	nTR1	LSU P101-6	+24V (H)	Transfer Control Transfer Output
			0V (L)	
CN52-7	MGND	LSU P101-7		Ground
			ov	

Pin No.		Destination	Signal Waveform	Function
CN54-1	+24VDR	Fan	+24 VDC High Speed Rotation Approx. +18 VDC Low Speed Rotation	Fan Control Signal
CN54-2	nFNRDT	Fan	+5V (H) Not Ready OV (L)	Fan Ready Signal
CN54-3	MGND	Fan	0V	Ground

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN55-1	+24VM	Paper Feed Solenoid	+24V (H)	+24 VDC Power Supply
CN55-2	nADF1	Paper Feed Solenoid	+24V (H)	Paper Feed Roller Solenoid Control Signal
			0V (L) ON	

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN56-1	+5V	Thermistor CN115-1	+5V	+5 VDC Power Supply
CN56-2	THERM	Thermistor CN115-2		Fuser Thermistor Voltage Level signal
			Analog Signal	
CN56-3	nESEN	Paper Exit Sensor CN112-1	+5V (H)	Paper Exit Sensor Detection Signal
			Detect Paper 0V (L)	
CN56-4	GND	Paper Exit Sensor CN112-2		Ground
			0V	
CN56-5	LDSE	Paper Exit Sensor CN112-3	Approx. +2 VDC	Paper Exit Sensor LED Drive Current
N56-6	nPCHK1	No Paper Sensor CN111-	.51/41)	No Paper Detection Signal
			+5V (H) Paper 0V (L)	
N56-7	GND	No Paper Sensor CN111- 2		Ground
			0V	
N56-8	LDSP1	No Paper Sensor CN111-3	Approx. +2 VDC	No Paper Sensor LED Drive Current

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN57-1	nCCHK1	Cassette Detect Sensor	+5V (H) No Cassette	No Cassette Detection Signal
CN57-2	NC			Not connected
CN57-3	GND	Cassette Detect Sensor	0 <u>V</u>	Ground

Signal Name	Destination	Signal Waveform	Function
nSDO	CTS2 CN81-1	+5V(H)	500 Sheets Cassette Interface TX DATA
		OV(L)	
nSDI	CTS2 CN81-2	+5V(H)	500 Sheets Cassette Interface RX DATA
		OV(L)	
nSCK	CTS2 CN81-3	+5V(H)	500 Sheets Cassette Interface CLOCK
		OV(L)	
pOPRST	CTS2 CN81-4		500 Sheets Cassette Interface Reset
		0V(L)	
MGND	CTS2 CN81-5		Ground
		ov	
MGND	CTS2 CN81-6		Ground
		Vo	
+24	CTS2 CN81-7		+24 VDC Power Supply
+24VM	CTS2 CN81-8	+24V (H)	+24 VDC Power Supply
		0V (L)	
	nSDI nSCK POPRST MGND +24	nSDO CTS2 CN81-1 nSDI CTS2 CN81-2 nSCK CTS2 CN81-3 POPRST CTS2 CN81-4 MGND CTS2 CN81-5 MGND CTS2 CN81-6 +24 CTS2 CN81-7	nSDO CTS2 CN81-1 +5V(H) nSDI CTS2 CN81-2 +5V(H) nSCK CTS2 CN81-3 +5V(H) pOPRST CTS2 CN81-4 +5V(H) MGND CTS2 CN81-5 0V MGND CTS2 CN81-6 0V +24 CTS2 CN81-7 +24V +24VM CTS2 CN81-8 +24V (H)

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN58-9	+5V	CTS2 CN81-9	+5V	+5 VDC Power Supply
CN58-10	GND	CTS2 CN81-10	OV	Ground
CN58-11	nOP	CTS2 CN81-11	+5V (H) No Feeder Unit	250 Sheets Feeder Unit Detection Signal
CN58-12	pADF2	CTS2 CN81-12	+5V (H) ON OV (L)	Feed Roller Drive Clutch Control Signal (250 sheets Cassette)
CN58-13	nPDOR2	CTS2 CN81-13	+5V (H) Door Closed 0V (L)	Jam Cover Sensor Detection Signal
CN58-14	nPCHK2	CTS2 CN81-14	+5V (H) No Paper 0V (L)	No Paper Detection Signal (250 sheets Cassette)
CN58-15	nSIZE23	CTS2 CN81-15		Not Used
CN58-16	nCCHK2	CTS2 CN81-16	+5V (H) No Cassette	No Paper Detection Signal (250 sheets Cassette)
CN58-17	nSIZE22	CTS2 CN81-17		Same as CN61
CN58-18	nSIZE21	CTS2 CN81-18		Same as CN61

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN59-1	пММРЗ	Printer Motor	+5V (H) Rotate 0V (L)	Rotate Signal
CN59-2	nMMP2	Printer Motor	+5V (H) Ready 0V (L)	Motor Ready Signal
CN59-3	+24VM	Printer Motor	+24V (H)	+24 VDC Power Supply
CN59-4	MGND	Printer Motor	0V	Ground

Pin No.		Destination	' Signal Waveform	Function
CN61-1	nSIZE11	SSN CN101-1	+5V (H)	nSIZE11 L H L H
CN61-2	GND	SSN 101-2	0V	A4 LGL
CN61-3	NC			LTR
CN61-4	nSIZE12	SSN 101-4	+5V (H)	
CN61-5	GND	SSN 101-5	ov	
CN61-6	NC			

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN62-1	GND	Toner Sensor CN114-1	0V	Ground
			OV	
CN62-2	TONER	Toner Sensor CN114-2	Analog Signal	Remaining Toner Level Signal
CN62-3		Toner Sensor CN114-3	+5V	+5 VDC Power Supply
CN62-4	nRSEN	Timing Sensor CN113-1	+5V (H) Detect Paper 0V (L)	Timing Sensor Detection Signal
CN62-5		Timing Sensor CN113-2	· ov	Ground
CN62-6	LDSR	Toner Sensor CN113-3	Approx. +2 VDC	Timing Sensor LED Drive Current

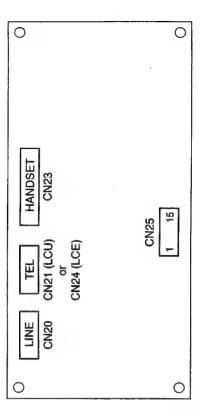
CN63

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN63-1	+24V	ILS PCB CN73-1	+24V	+24 VDC Power Supply
CN63-2	NC			Not Connected
CN63-3	+24VD	ILS PCB CN73-3	+24V (H) Cover Open 0V (L) Cover Closed	Printer Cover Detection Signal

CN69

Refer to FCB PCB CN12.

3.10 LCU/LCE PCB



Pin No.		Destination	Signal Waveform	Function
CN20-1	NC			Not Used
CN20-2	NC			Not Used
CN20-3	L2(T)	Telephone Line		Line Signal
CN20-4	L1(R)	Telephone Line		Line Signal
i				

CN21

	Not Used
	Not Used
External Telephone	Line Signal for the External Telephone
External Telephone	Line Signal for the External Telephone

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN23-1	Al	SRU PCB CN90-6	+5V (H) Off Hook On Hook 0V (L)	Switch Hook Signal
CN23-2	NC	SRU PCB CN90-1		Not Connected

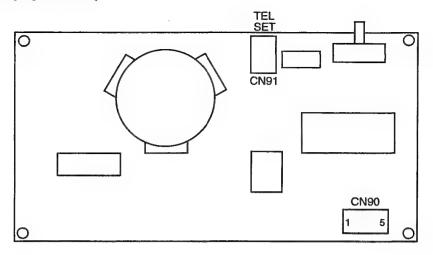
Pin No.	Signal Name	Destination	Signal Waveform	Function
CN23-3	HLIN1	SRU PCB CN90-2		Line Signal for the Fax Handset
CN23-4	HLIN2	SRU PCB CN90-3		Line Signal for the Fax Handset
CN23-5	NC	SRU PCB CN90-7		Not Connected
CN23-6	AIS	SRU PCB CN90-5		Ground
			0V	

CN24-1 NC		External Telephone External Telephone		Not Connected
CN24-2 T2	2	External Telephone		
		External relephone		Line Signal for the External Telephone
CN24-3 NC	0	External Telephone	· · · · · · · · · · · · · · · · · · ·	Not Connected
CN24-4 NC	С	External Telephone		Not Connected
CN24-5 T1		Estama Talanhan		Lie Oisselfe Also Federal Federal
CIN24-5		External Telephone		Line Signal for the External Teleph⊕e
CN24-6 NC	9	External Telephone		Not Connected

CN25

Refer to FCB PCB CN3.

3.11 SRU PCB (Optional)

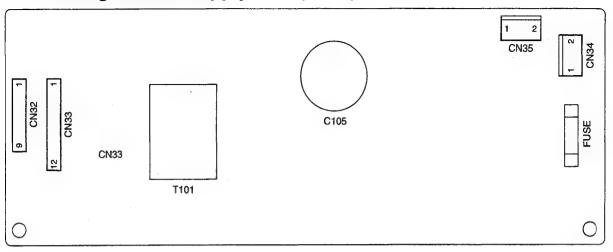


Pin No.		Destination	Signal Waveform	Function
CN91-1	NC			Not Connected
CN91-2	MIC (+)	Telephone Handset CN		Handset Microphone
CN91-3	RCV (+)	Telephone Handset CN		Handset Receiver
CN91-4	RCV (-)	Telephone Handset CN		Handset Receiver
CN91-5	MIC (-)	Telephone Handset CN		Handset Microphone
CN91-6	TGND			Ground
			0V	

CN90

Refer to LCU PCB CN23.

3.12 Low Voltage Power Supply PCB (POW)

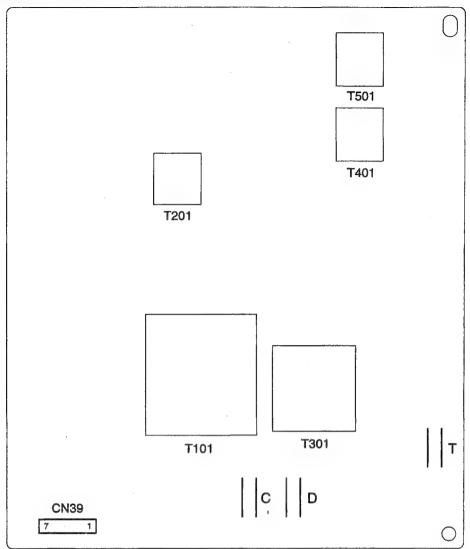


CN32
Refer to FCB PCB CN13.
CN33
Refer to LPC PCB CN1.
CN34

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN34-1		ACI PCB		AC Input (Black-Live)
CN34-2	NEUTRAL	ACI PCB		AC Input (White-Neutral)

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN35-1	HEAT 2	Fuser Unit CN116		Fuser Lamp AC (White-Neutral)
CN35-2	HEAT 1	Fuser Unit CN116		Fuser Lamp AC (Black-Live)

3.13 High Voltage Power Supply PCB (HVPS)



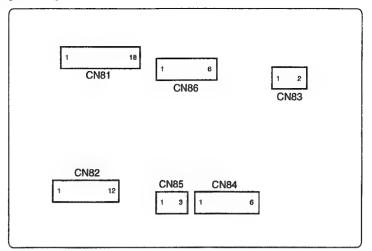
High Voltage Output

Pin No.	Signal Name	Destination	Signal Waveform	Function
T	Transfer	Bias Transfer Roller	+3 μA 0V -800V	(1) Transfer Current: (+3 uA) (2) Cleaning Voltage: (-800 V)
С	Charge	Bias Charge Roller	-650 V -	Charge Current: 450 μA (AC 400 Hz Sine Wave) & DC Charge Voltage
D	Development	Development Roller	0V -500V \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Development Voltage (AC 1.7 kHz Square Wave) & DC Voltage

CN39

Refer to LPC PCB CN52.

3.14 CST2 PCB (Option)



Pin No.	Signal Name	Destination	Signal Waveform	Function
CN82-1	nSDO	CST3PCB CN101-1		500 Sheet Cassette Interface TX Data
			+5V(H)	
			L 0V(L)	
CN82-2	InSDI	CST3PCB CN101-2	+5V(H)	500 Sheet Cassette Interface RX Data
			+5*(1)	
			OV(L)	
CN82-3	nSCK	CST3PCB CN101-3		500 Sheet Cassette Interface clock
			+5V(H)	
			L OV(L)	
	· ·			
CN82-4	pOPRST	CST3PCB CN101-4		500 Sheet Cassette Reset Signal
			+5V(H)	
			OV(L)	
CN82-5	MOND	CST3PCB CN101-5		
CN62-5	INGIND	CS13FCB CN101-5		Ground
			ov	
CN82-6	MGND	CST3PCB CN101-6		Ground
			0V	
01100 =				
CN82-7	+24V	CST3PCB CN101-7	+24V	+24 VDC Power Supply
CN82-8	+24VM	CST3PCB CN101-8	.004	+24 VDC Power Supply
			+24V	and the company
			0.4	
			ov	
CN82-9	+5V	CST3PCB CN101-9	+5V	+5 VDC Power Supply
			·	
N82-10	GND	CST3PCB CN101-10		Ground
1102 10	GND	COTOL OF ONTO 1-10		Ground
				·
			0V	
N82-11				Not Connected
	•			
		1		

	Signal Name	Destination	Signal Waveform	Function
CN82-12				Not Connected

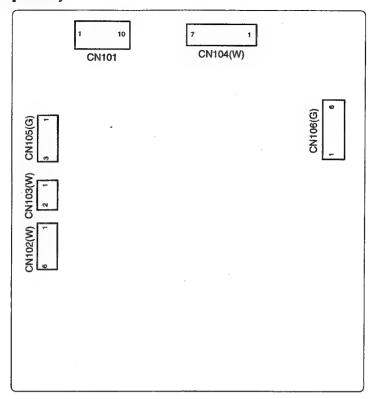
Pin No.	Signal Name	Destination	Signal Waveform	Function
CN83-1	+24VM	Paper Feed Solenoid	+24V 0V	+24 VDC Power Supply
CN83-2	nADF2	Paper Feed Solenoid	24V	Feed Roller Drive Clutch Control Signal (250 Sheet Cassette)

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN84-1	nPCHK2	No Paper Sensor CN121-1	. +5V (H No Paper 0V (L)	No paper Detection Signal
CN84-2	GND	No Paper Sensor CN121-2		Ground
				<u>v</u>
CN84-3	LDSP2	No Paper Sensor CN121-3	Approx. +2 VDC	+2 VDC Power Supply
CN84-4	nPDOR2	Jam Access Cover Detect Sensor CN122-1	+5V (H) Cover Open OV (L)	Jam Cover Open Detection
CN84-5	GND	Jam Access Cover Detect Sensor CN122-2		Ground
				<u>v</u>
CN84-6	LDSD2	Jam Access Cover Detect Sensor CN122-3	Approx. +2 VDC	+2 VDC Power Supply

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN85-1	nCCHK2	Cassette Detect Sensor	+5V (H) No Cassette	Paper Cassette Detection
CN85-2				Not Connected
CN85-3	GND	Cassette Detect Sensor	0V	Ground

Pin No.		Destination	Signal Waveform	Function
CN86-1	nSIZE21	SSN PCB CN101-1	+5V (H)	nSIZE21 L H L H
CN86-2	GND	SSN PCB CN101-2	OV	LGL
CN86-3	NC			LTR
CN86-4	nSiZE22	SSN PCB CN101-4	+5V (H)	
CN86-5	GND	SSN PCB CN101-5	0V	
CN86-6	NC		,	

3.15 CST3 PCB (Option)



CN101 Refer to CST2 PCB CN82. CN102

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN102-1	n3MP1	Main Motor	+24V ov	Motor Drive Signal 1
CN102-2	+24VM	Main Motor	+24V 0V	+24 VDC Power Supply
CN102-3	пЗМР0	Main Motor	+24V 0V	Motor Drive Signal 0
CN102-4	n3MP3	Main Motor	+24V ov	Motor Drive Signal 3
CN102-5	+24VM	Main Motor	+24V 0V	+24 VDC Power Supply
CN102-6	n3MP2	Main Motor	+24V ov	Motor Drive Signal 2

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN103-1	+24VM	Paper Feed Solenoid	+24V (H)	+24 VDC Power Supply
CN103-2	nADF3	Paper Feed Solenoid	Off 24V On 200ms	Paper Feed Solenoid Control Signal

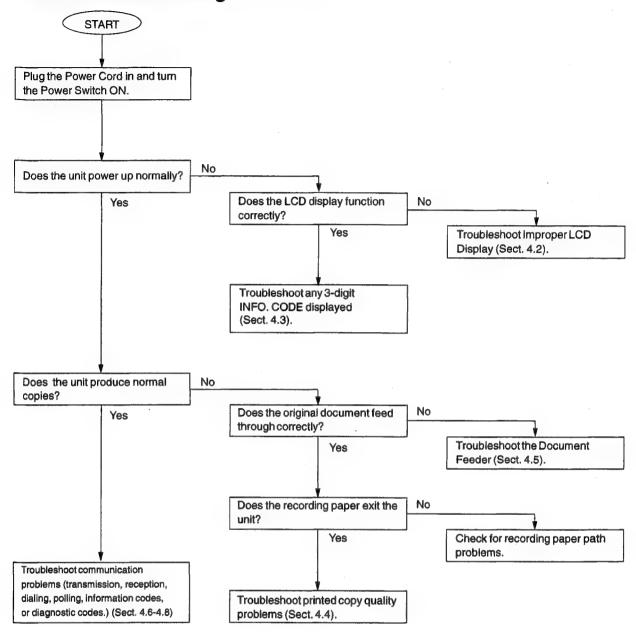
Pin No.	Signal Name	Destination	Signal Waveform	Function
CN104-1	nPCHK2	No Paper Sensor		No paper Detection Signal
		CN131-1	+5V (H)	
			No Paper	
			OV (L)	
CN104-2	GND	No Paper Sensor		Ground
		CN131-2		
			oV	
			WARRANT TRANSPORT	
CN104-3	LDSP3	No Paper Sensor		+2 VDC Power Supply
0.11.0.0	200. 0	CN131-3		The vision supply
			Approx. +2 VDC	
			Approx. +2 VBO	
CN104-4	nPDOR3	Jam Access Cover	7/40	Jam Cover Open Detection
		Detect Sensor CN132-1	+5V (H)	
			Cover Open	
	•		OV (L)	
CN104-5	CND	Jam Access Cover		Ground
CI4104-5	GIVD	Detect Sensor CN132-2		Ground
		Dettot General Giving 2		
			0V	
		1		
CN104-6	LDSD3	Jam Access Cover		+2 VDC Power Supply
		Detect Sensor CN132-3		
		1	Approx. +2 VDC	
		1		
		1		
CN104-7	NC			Not Connected
014104-7	140	1		Not Connected
		1		·

Pin No.	Signal Name	Destination	Signal Waveform	Function
CN105-1	nCCHK3	Cassette Detect Sensor	+5V (H) No Cassette	Paper Cassette Detection
CN105-2	NC	Cassette Detect Sensor		Not Connected
CN105-3	GND	Cassette Detect Sensor		Ground
			0V	

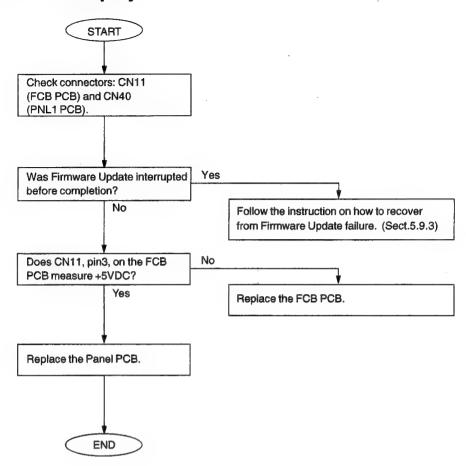
Pin No.		Destination	Signal Waveform	Function
CN106-1	nSIZE31	SSN PCB CN101-1	- +5V (H)	nSIZE31 L H L H
CN106-2	GND	SSN PCB CN101-2	ov	A4 LGL
CN106-3	NC		·	LTR
CN106-4	nSIZE32	SSN PCB CN101-4	+5V (H)	
CN106-5	GND	SSN PCB CN101-5	0V	
CN106-6	NC			,

4 Troubleshooting

4.1 Initial Troubleshooting Flowchart



4.2 Improper LCD Display

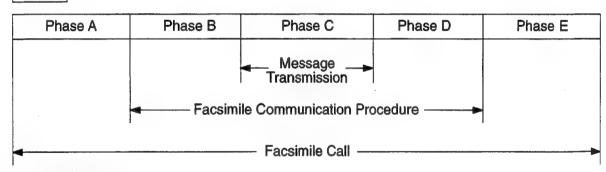


4.3 Information Codes (INFO. CODES)

The 3-digit information codes display to show the unit's status. These codes also print on the journal. The following table indicates appropriate sections for troubleshooting.

Code	Explanation	Phase	Section
001-003	Recording paper jam	С	4.3.8
007-008	Recording paper jam	C,D	4.3.8
010	No recording paper	B,C	4.3.9
030	Document misfeeding	В	4.3.10
031	Document too long	С	4.3.10
400	Transmission error	В	4.3.1
401	Transmission error	В	4.3.2
402	Transmission error	В	4.3.2
403	Polling reception error	В	4.3.12
404	Transmission error	В	4.3.3
405	Transmission error	В	4.3.3
407	Transmission error	D	4.3.3
408	Transmission error	D	4.3.5
409	Transmission error	D	4.3.5
411	Polling reception error	В	4.3.12
414	Polling reception error	В	4.3.12
415	Remote side mis-operation	В	4.3.12
416	Reception error	D	4.3.4
417	Reception error	С	4.3.5
418	Reception error	С	4.3.5
420	Reception error	В	4.3.1
422	Transmission error	В	4.3.2
434	Signal noise level too high	В	4.3.6
459	Reception error	С	4.3.7
490	Reception error	С	4.3.5
494	Reception error	С	4.3.7
495	Reception error	С	4.3.7
630	Remote unit busy	В	4.3.11
634	No busy tone detected	В	

Phase



Phase A: Call establishment

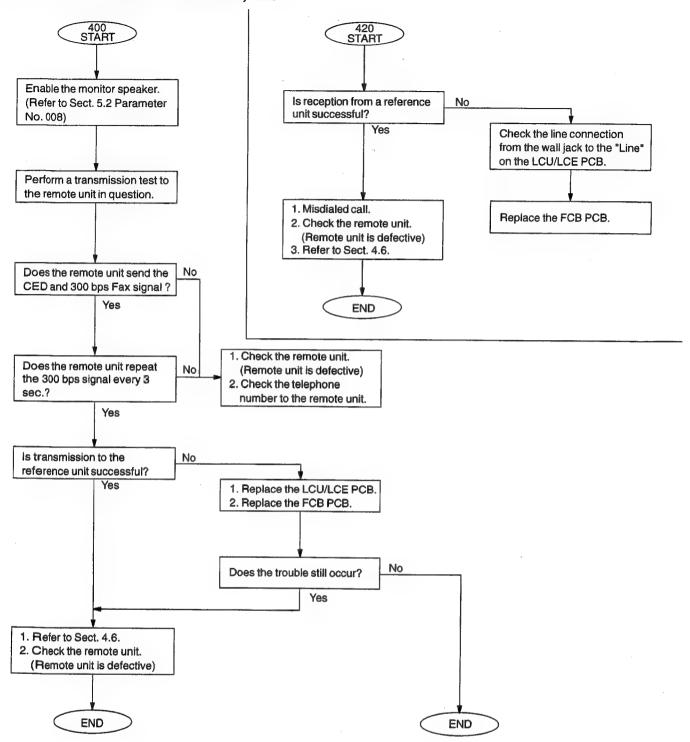
Phase B: Pre-message procedure

Phase C: Message transmission

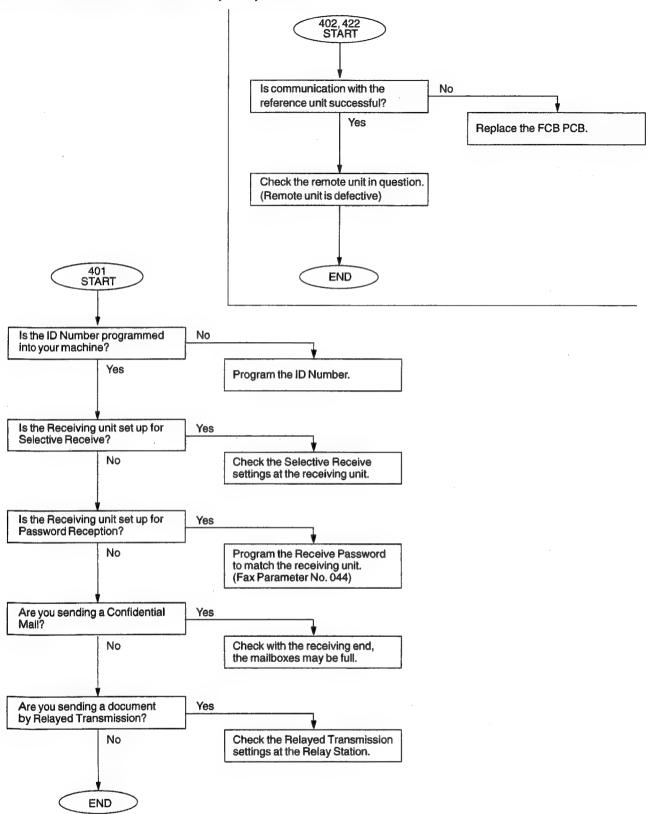
Phase D: Post-message procedure

Phase E: Call release

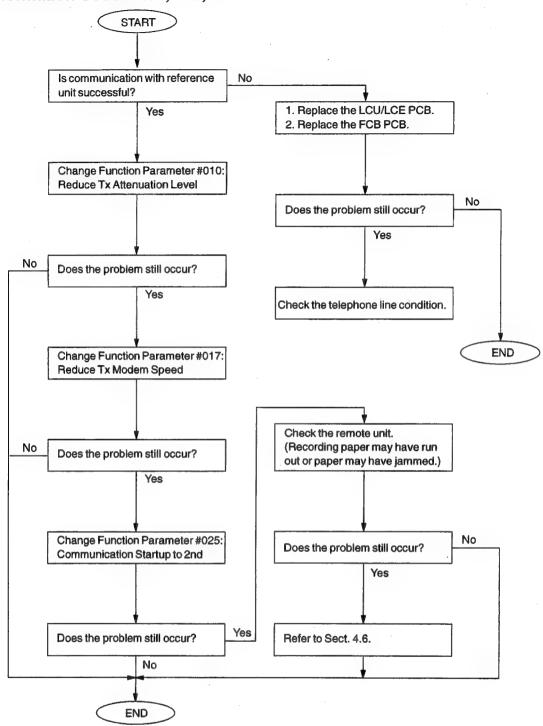
4.3.1 Information Codes: 400, 420



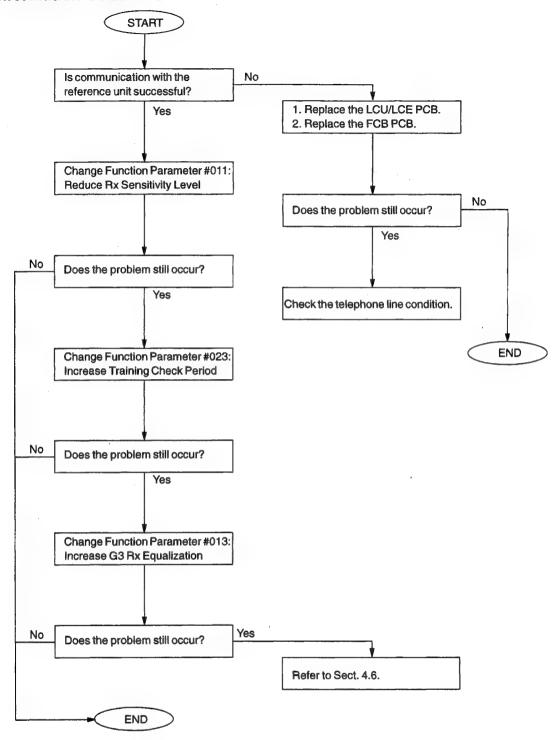
4.3.2 Information Codes: 401, 402, 422



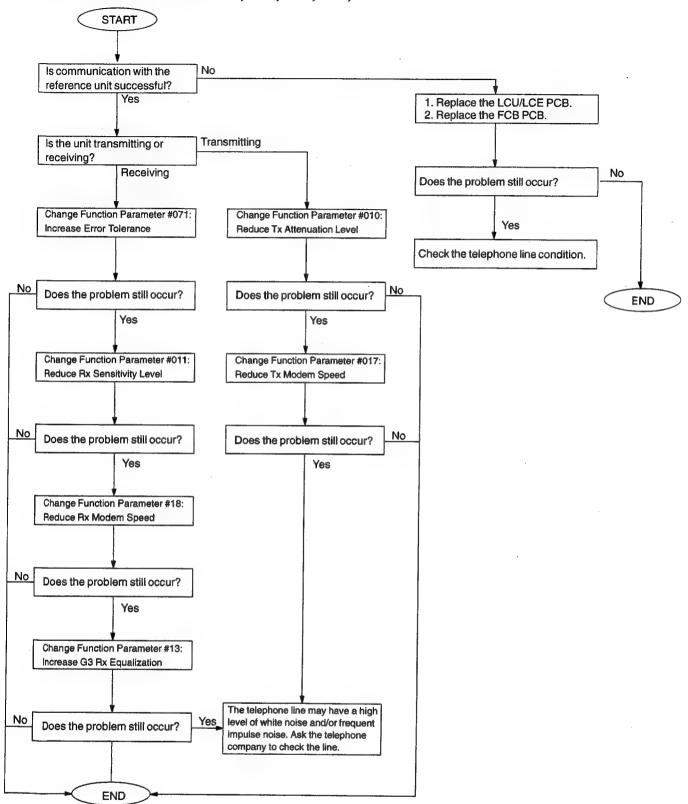
4.3.3 Information Codes: 404, 405, 407



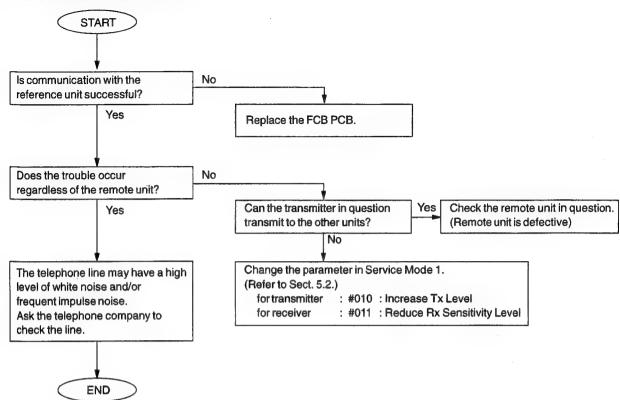
4.3.4 Information Code: 416



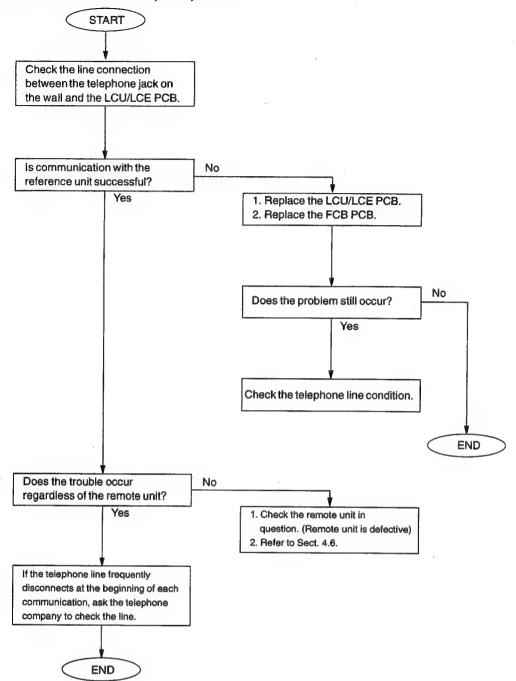
4.3.5 Information Codes: 408, 409, 417, 418, 490



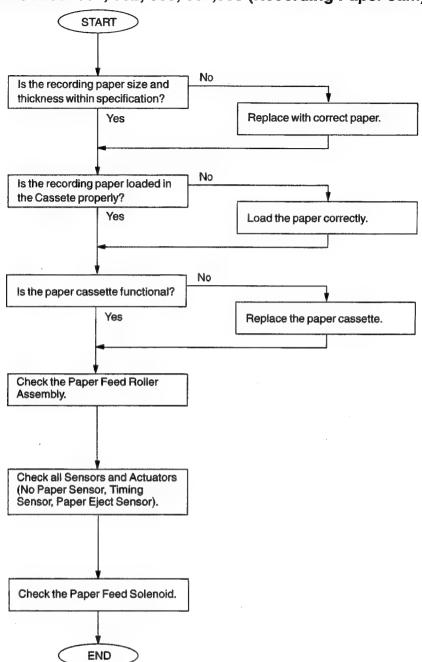
4.3.6 Information Code: 434



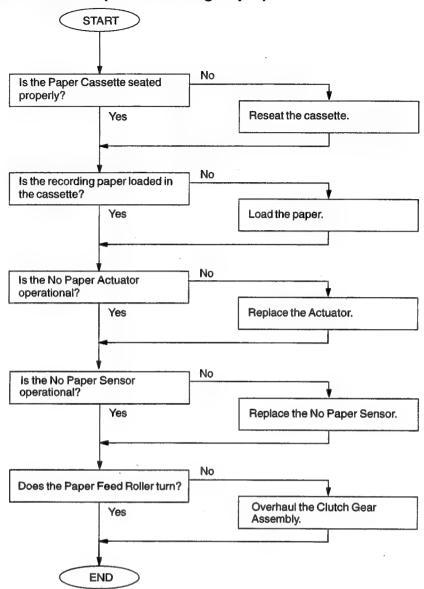
4.3.7 Information Codes: 459, 494, 495



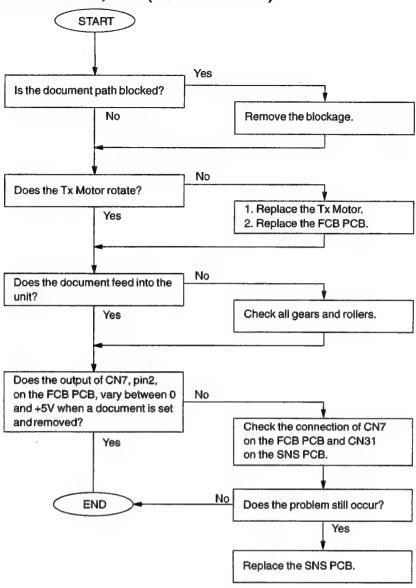
4.3.8 Information Codes: 001, 002, 003, 007,008 (Recording Paper Jam)



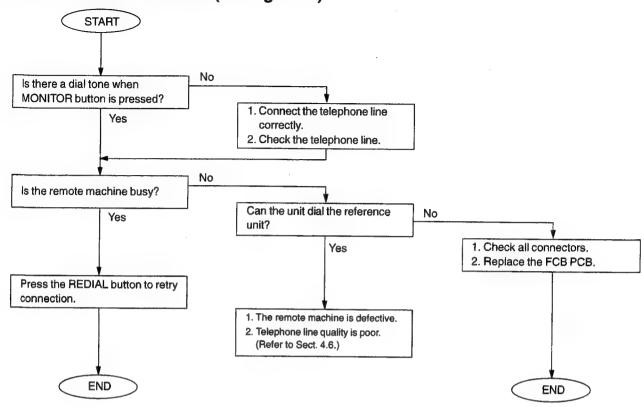
4.3.9 Information Code: 010 (No Recording Paper)



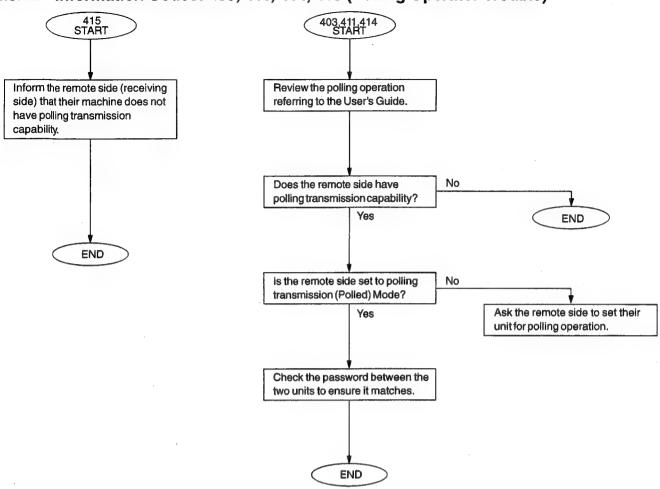
4.3.10 Information Codes: 030, 031 (Document Jam)



4.3.11 Information Code: 630 (Dialing Error)



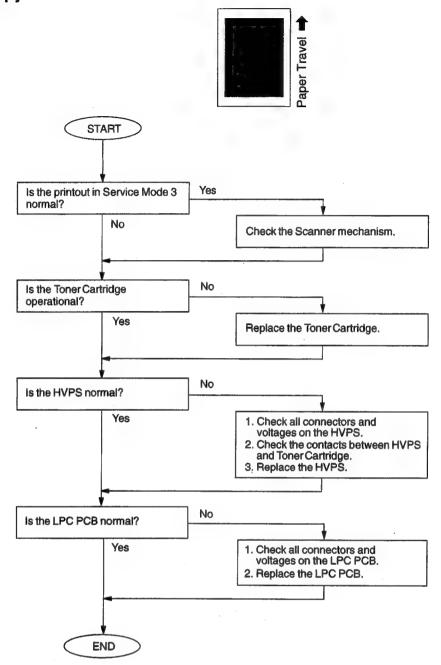
4.3.12 Information Codes: 403, 411, 414, 415 (Polling Operator Trouble)



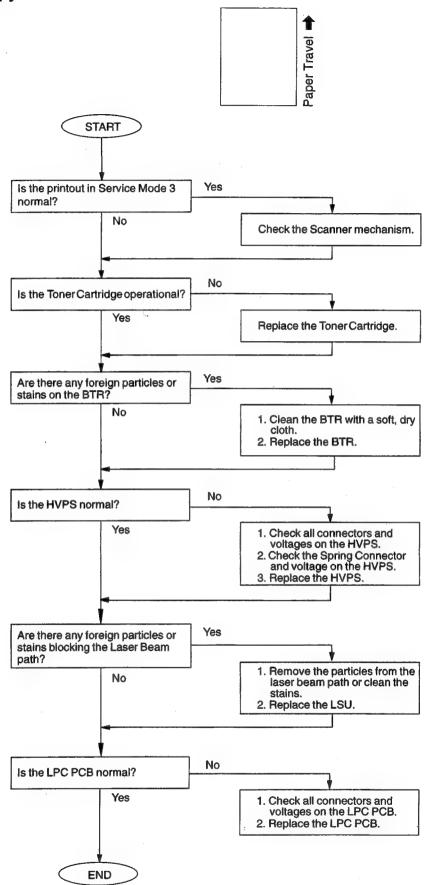
Polling communication with 4-digit password is not an ITU-T / CCITT Standard feature. If the transmitter and receiver are of different manufacturers, polling communication with password *may not* be possible.

4.4 Printed Copy Quality Problems

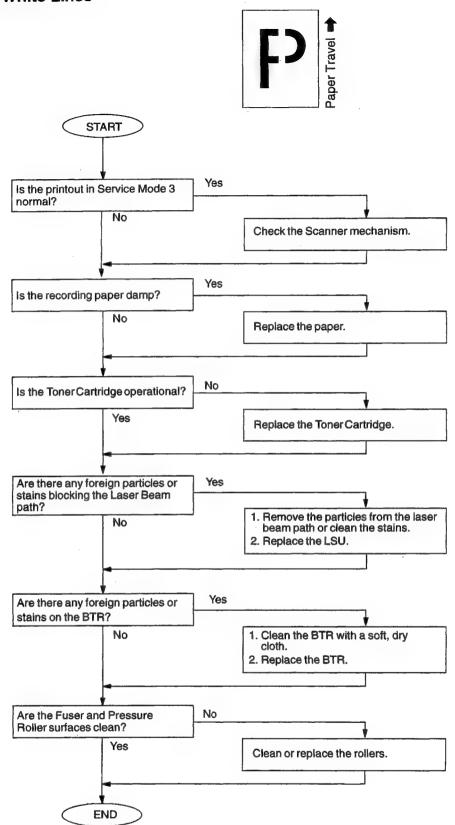
4.4.1 Black Copy



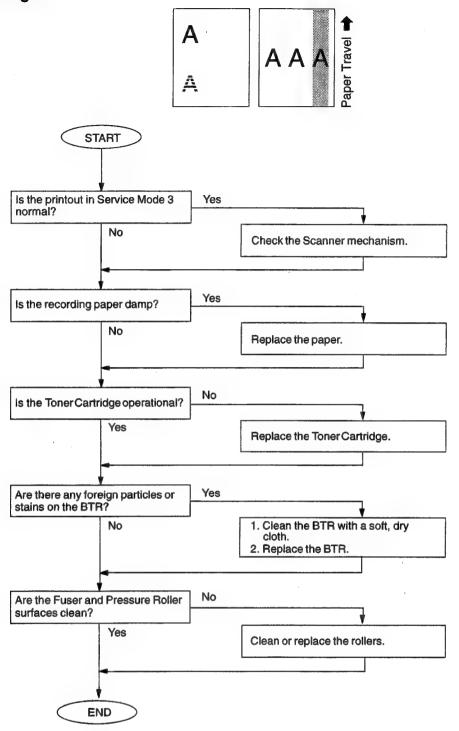
4.4.2 Blank Copy



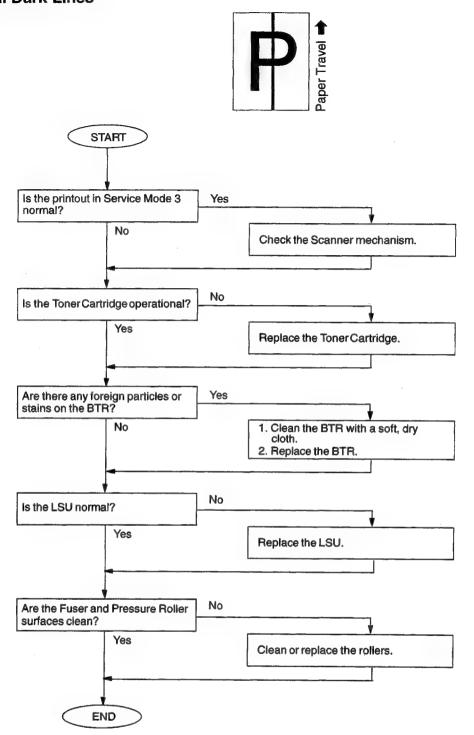
4.4.3 Vertical White Lines



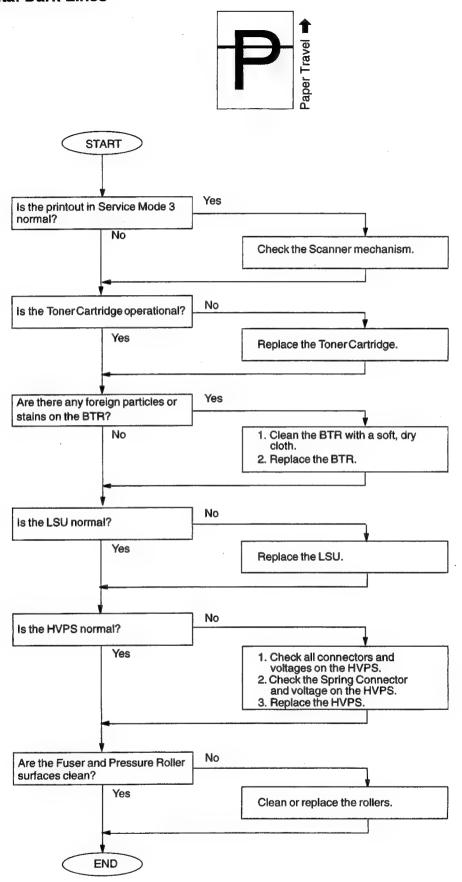
4.4.4 Ghost Images



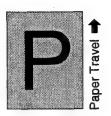
4.4.5 Vertical Dark Lines

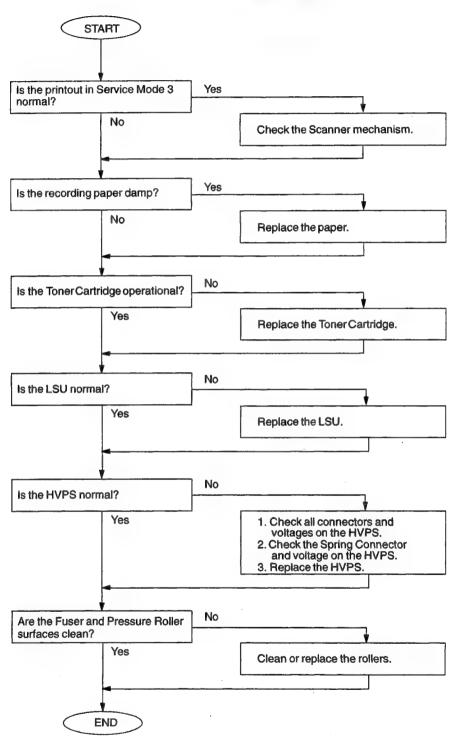


4.4.6 Horizontal Dark Lines

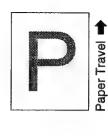


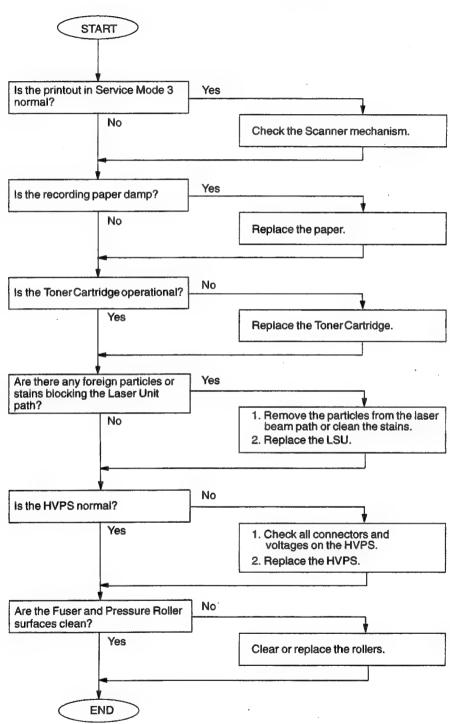
4.4.7 Dark Background



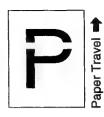


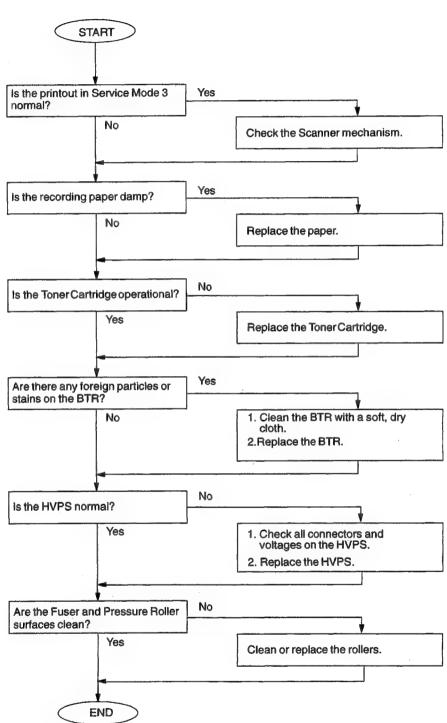
4.4.8 Light Print



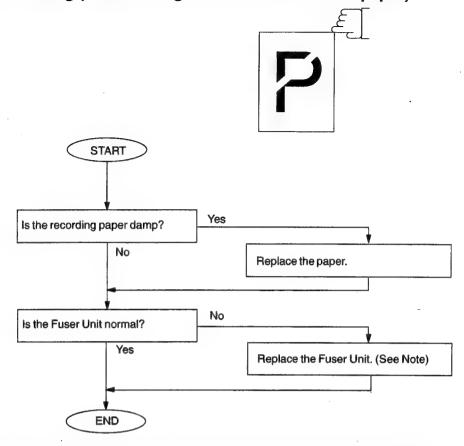


4.4.9 Horizontal White Lines





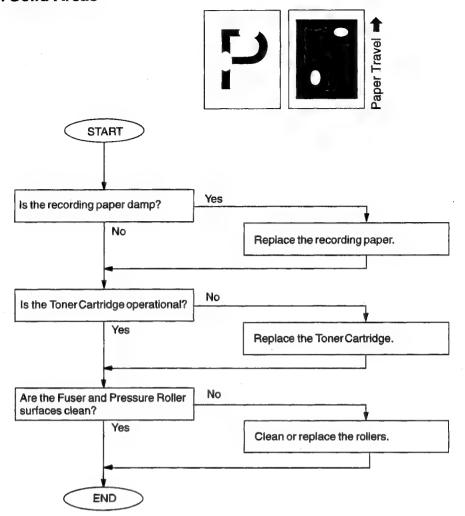
4.4.10 Improper Fusing (Printed image does not bond to the paper)



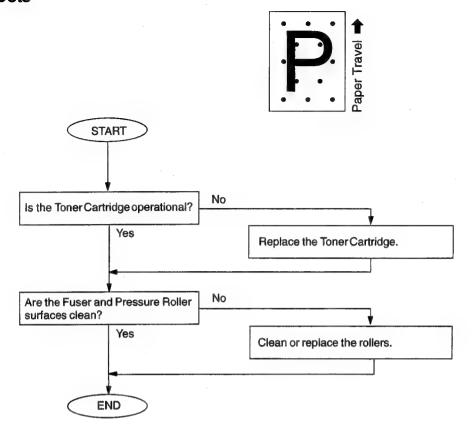
Note:

Replace the entire Fuser Unit when the Thermostat and / or the Thermistor becomes open-circuit.

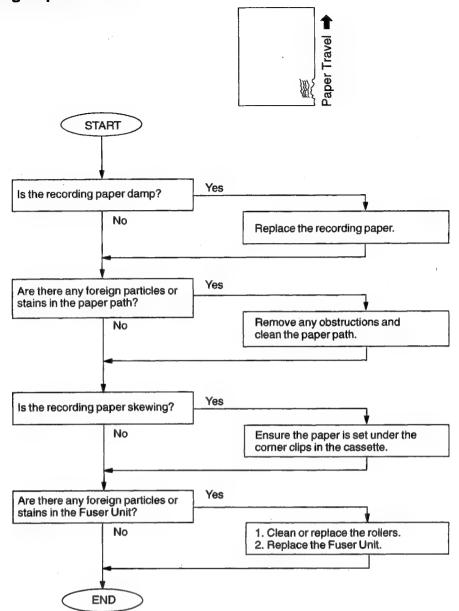
4.4.11 Voids in Solid Areas



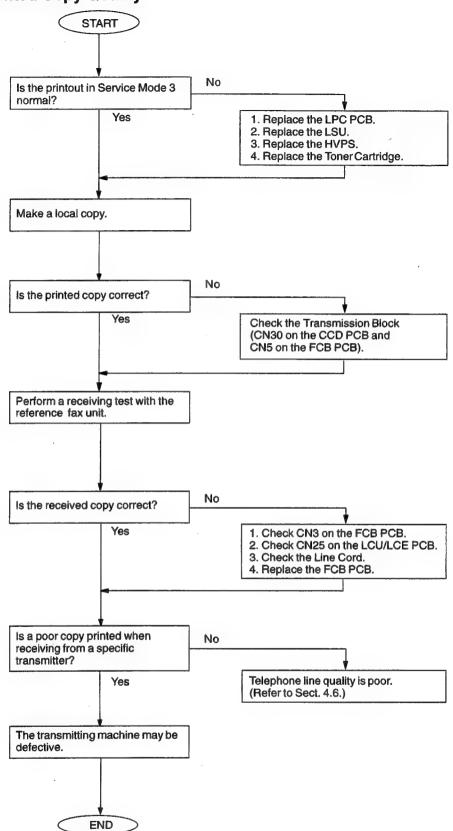
4.4.12 Black Dots



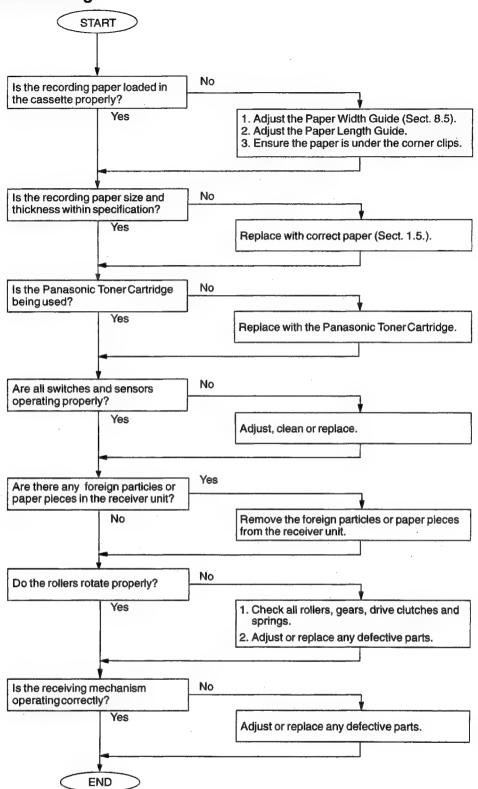
4.4.13 Recording Paper Creases



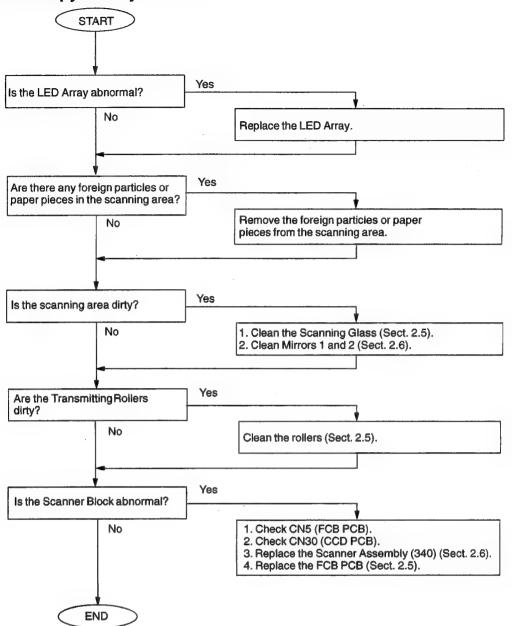
4.4.14 Poor Printed Copy Quality



4.4.15 Abnormal Printing

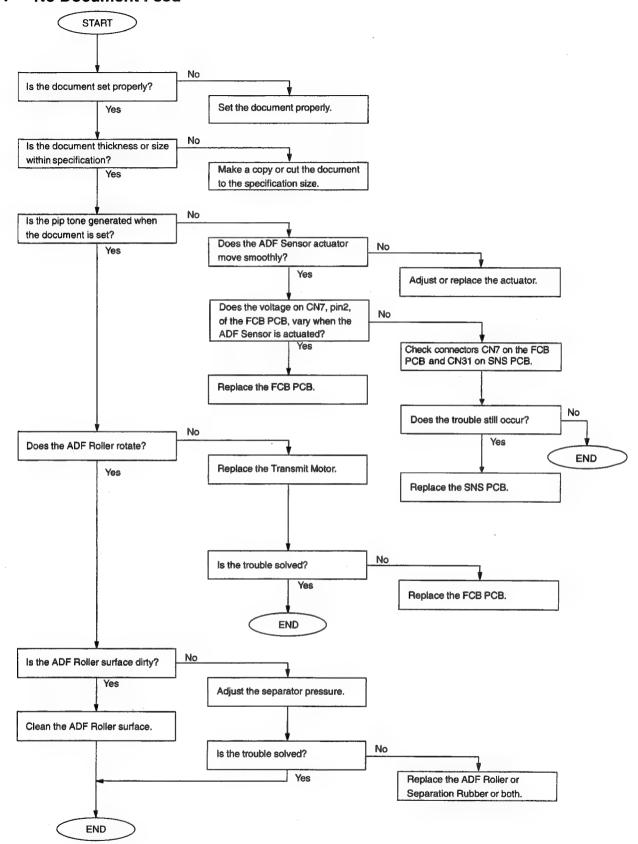


4.4.16 Scanned Copy Quality Problems

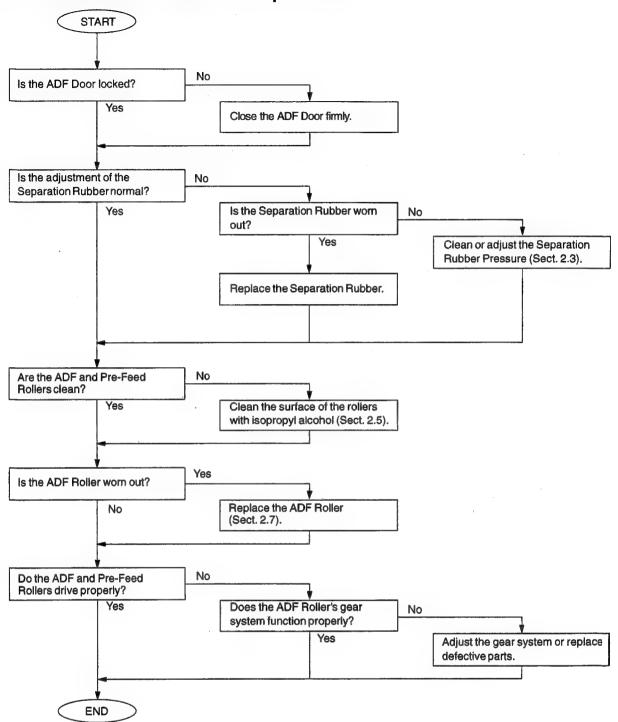


4.5 Document Feeder (ADF)

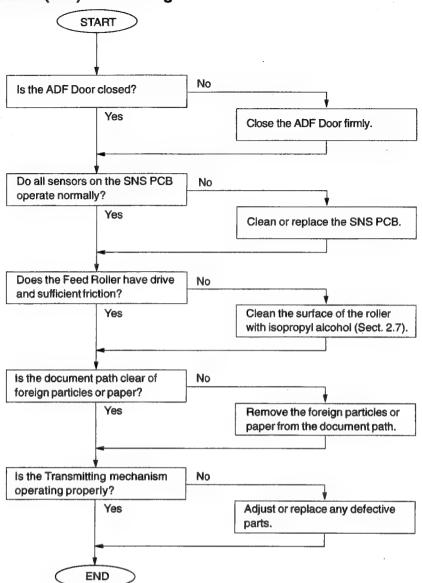
4.5.1 No Document Feed



4.5.2 Document does not feed or Multiple feeds



4.5.3 Document Jam (030) or Skewing

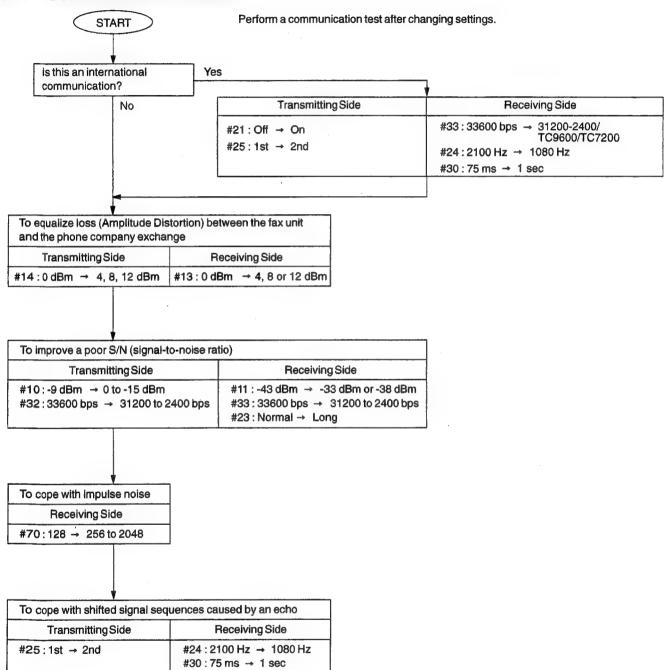


4.6 Communications

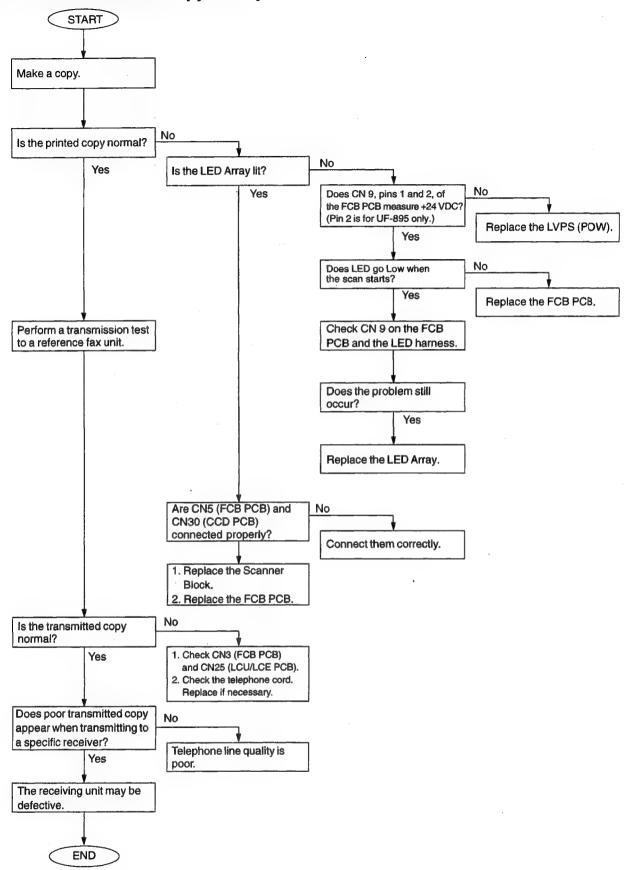
This section explains general troubleshooting procedures for the 400 series of Information Codes. These errors are primarily caused by poor telephone line quality (loss, noise, echo, etc.). This unit is furnished with Service Mode 1 to assist in troubleshooting line quality problems.

It is suggested that both the transmitting unit and receiving unit be adjusted. This section gives relevant parameters in Service Mode 1 for the transmitting and receiving sides. If no improvement is realized after the parameters are adjusted, it is recommended that the parameters be returned to the default settings.

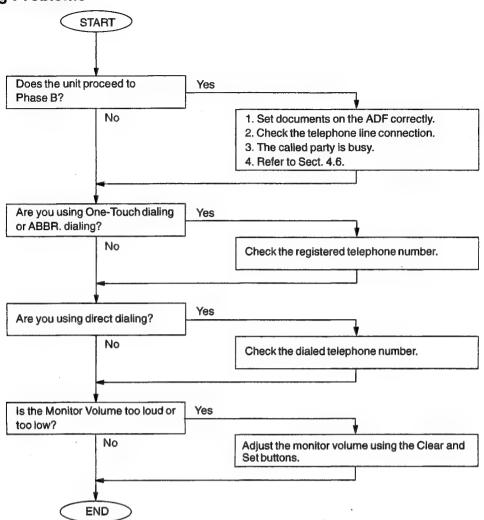
4.6.1 Communication Trouble



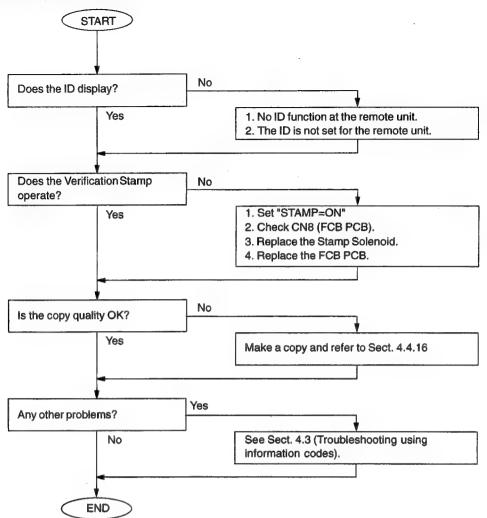
4.6.2 Poor Transmitted Copy Quality



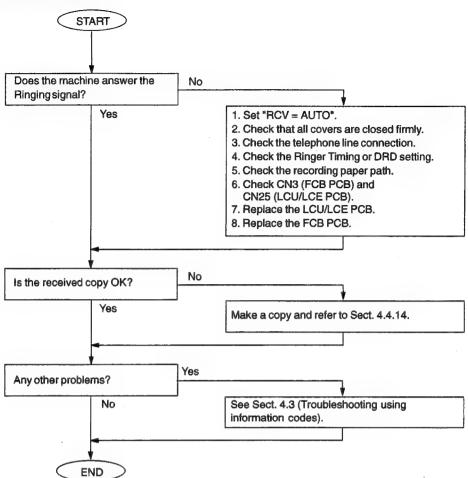
4.6.3 Dialing Problems



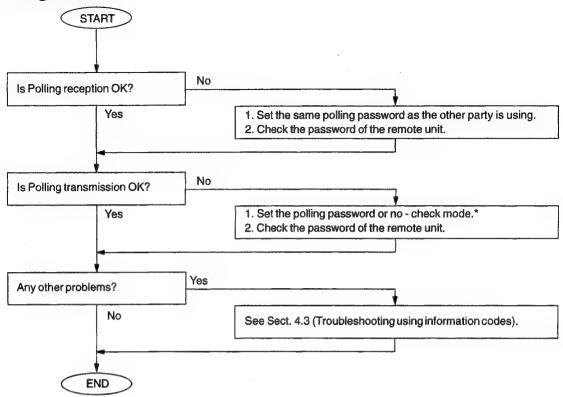
4.6.4 Transmission Problems



4.6.5 Reception Problems



4.6.6 Polling Problems



Note:

No-check Mode means that password is not set.

4.7 Information Code Table

Code	Mode	Phase	Description of Problem	Cause
001	RCV	C, D	Leading edge of the recording paper fails to	Recording paper jam.
	COPY		reach the Timing Sensor. (1st cassette)	Timing Sensor abnormal.
002	RCV COPY	C, D	Leading edge of the recording paper fails to reach the Timing Sensor. (2nd cassette)	Recording paper jam. Timing Sensor abnormal.
003	RCV COPY	C, D	Leading edge of the recording paper fails to reach the Timing Sensor. (3rd cassette)	Recording paper jam. Timing Sensor abnormal.
007				
007	RCV COPY	C, D	1.Leading edge of the recording paper fails to reach the Eject Sensor. 2.Recording paper has not completely passed the Eject Sensor.	Recording paper jam. Eject Sensor abnormal.
800	RCV COPY	C, D	Paper Cassette was opened while the recording paper was feeding.	Recording paper jam.
010	RCV COPY	B, C	No recording paper.	No recording paper or paper is not set properly. No paper Sensor is defective.
011	STANDBY	-	Paper Cassette is not installed properly.	The paper content to delicative.
012	RCV	C, D	The length of the received document is over 380mm. (Used in France only)	
021	STANDBY	B, C, D	Fan is abnormal.	Defective LPC PCB.
	RX COPY	2, 0, 0	Thermister is abnormal. Fuser Control is abnormal.	Defective Fuser Unit, LVPS or Fan.
026	-	-	The backup battery is getting weak.	
030	XMT	В	Read Point Sensor does not go ON within 10 seconds after the document starts feeding.	Document is not set properly. Defective Read Point Sensor.
031	XMT	С	Transmitting document was longer than	The document may jam.
	COPY		2,000mm (or 78.7 in).	Defective Read Point Sensor.
033	-	-	Sub CPU system error.	Defective FCB PCB.
041	STANDBY RX COPY	B, C, D	Out of toner.	No toner. Defective Toner Sensor.
043	STANDBY RX COPY	B, C, D	Low Toner.	Toner is getting low. Defective Toner Sensor.
045	STANDBY	-	No Toner Cartridge.	Toner cartridge has not been installed. Defective Toner Sensor (Cartridge Sensor).
051	RCV COPY	-	Printer Motor is abnormal.	Connector not properly connected. Defective Printer Motor. Defective LPC PCB.
054	STANDBY RX COPY	-	HSYNC is abnormal. Laser motor is abnormal.	Defective Laser Unit.
055	STANDBY RX COPY	-	No response of LBP CPU on LPC.	Defective LPC PCB. Defective FCB PCB.
058	-	Α	Interface error occurred with the 500-sheet optional cassette feeder.	Defective CST3 PCB.
059	RCV COPY	С	Interface error occurred between FCB PCB and LPC PCB.	Defective LPC PCB. Defective FCB PCB.
060	-	A	Printer Cover is open.	Cover is not firmly closed. Connectors are not firmly connected.
061	-	Α	ADF Door is open.	Cover is not firmly closed. Connectors are not firmly connected.
063	-	A	Jam Access Cover is open.	Cover on the optional 2nd cassette is not closed.
064	-	A	Jam Access Cover is open.	Cover on the optional 3rd cassette is not closed.
200	RCV	С	Decoding process is not completed at the end of phase C.	
212	XMT	A-E	Interface error occurred between the CPU and modem.	Modern is defective. (FCB PCB) Software problem occurred. (FCB PCB)
301	XMT		System fault.	Software problem occurred. (FCB PCB)
331	XMT	С	8-minutes timer error. (Germany only)	

C64-	Mende	Dhace	Information Codes Description of Problem	Cause
Code	Mode	Phase	T1 timer (35±5 sec) elapsed without detecting	Wrong number is dialed and the START button
400	XMT	В	300 bps signal.	is pushed. Telephone line is disconnected while dialing. FCB PCB (Modem) or LCU/LCE PCB is defective.
				Receiver is defective. (It may only be transmitting CED)
401	XMT	В	DCN was returned from receiver while transmitter is waiting for CFR or FTT.	Your machine's ID Number is not programmed. Possible incompatibility or incorrect Password (Password Reception, Selective Receive). Mailbox is full.
402	XMT	В	DCN was returned from receiver while transmitter is waiting for NSF/DIS.	Receiver working in non-CCITT mode only. (Possible incompatibility)
403	RCV(Polling)	В	Transmitter had no polling function.	"POLLED=ON" (polling XMT ready) is not set at the transmitter. Document to be transmitted is not placed at the transmitter.
404	ХМТ	В	Transmitter sent NSS (or DCS) followed by TCF three times, but the receiver did not respond. (CFR or FTT is usually returned)	etc.) FCB PCB or LCU/LCE PCB is defective. Receiver disconnects line during first NSS (or DCS) is transmitted.
405	хмт	В	Transmitter received FTT after it transmitted TCF at 2400bps. Received RTN after communicating at 2400 bps.	Line quality is poor. (TCF is damaged due to line noise) Receiver is defective. (Modem, LCU/LCE PCB, etc.) FCB PCB or LCU/LCE PCB is defective.
406	RCV(Pass- word Comm.)	В	XMT-Password mismatched. RCV-Password mismatched. Selective RCV incomplete.	XMT, RCV password does not match. Last 4 digits of TSI does not match with the last 4 digits of ONE-TOUCH, ABBR telephone number.
407	ХМТ	D	Transmitter received no response after it transmitted post message, such as EOP, MPS, EOM, etcor received DCN.	Receiver is defective. (No paper, paper jamming, etc.) Receiver ceased receiving because of excessive error. (Line quality is poor) FCB PCB (Modem) or LCU/LCE PCB is defective.
408	ХМТ	D	Transmitter received RTN after it transmitted EOP, MPS, or EOM.	Receiver receives data with error. (Line quality is poor) Receiver is defective. (Modem, LCU/LCE, etc.) FCB PCB or LCU/LCE PCB are defective.
409	ХМТ	D	Transmitter receives PIN after it transmitted a post message, such as EOP, MPS, EOM, etc.	Receiver receives data with error due to poor line quality, and receiving operator requests voice contact. Receiver is defective. (Modem, LCU/LCE, etc.) FCB PCB or LCU/LCE PCB are defective.
410	RCV	D	Received DCN while waiting for post command. (EOP, MPS, EOM, etc.)	Interface or line is faulty.Transmitter is defective.
411	RCV(Polling)	В	Received DCN after transmitting NSC.	Transmitter is not ready for polling communication. Password does not match between transmitter and receiver.
412	G3 RX	B, D	No response within 12 seconds in NSS/DCS/ MPS wait state. (After transmitting FTT)	Transmitter is defective. FCB PCB is defective.
414	RCV(Polling)	В	No response received after transmitting 3rd NSC.	Password does not match between traismitter and receiver. Transmitter is defective. (No document document jam, etc.)
415	XMT(Polling)	В	Remote side attempted to receive message from your machine in polling communication. Inform the remote side that your machine does not have the polling transmission feature.	
416	RCV	D	Receiver did not detect post command, such as EOP, MPS, EOM, etc.	Transmitter is defective.Line quality is po (RTC signal is distorted due to line nois) FCB PCB or LCU/LCE PCB are defective.
417	RCV	С	Receiver returned RTN in response to post message.	Line quality is poor. (There are excessive of from in received data) FCB PCB or LCU/LCE PCB are defective.

Code	Mode	Phase	Information Codes Description of Problem	Cause
418	RCV	С	Receiver transmitted PIN in response to PRI-Q	Line quality is poor. (There are excessive errors
710	1104	O	from transmitter. (Transmitting operator	in received data)
			requests voice contact)	FCB PCB or LCU/LCE PCB are defective.
420	RCV	В	T1 timer (35 sec.) elapsed without detecting 300	
0			bps signal.	communication)
				Transmitter is defective.
				FCB PCB or LCU/LCE PCB is defective.
421	RCV	В	Busy Tone is detected after sending NSF Signal.	Remote station disconnectes the line.
				Wrong number is dialed.
422	XMT	В	Content of NSF (or DIS) or NSC (or DTC) was	There is an incompatibility.
			invalid.	
427	G3 RCV	В	DCN received to NSF/CSI/DIS transmitted.	The interface is incompatible.
433	XMT	B, D	T.30 Protocol abnormal.	Defective remote station.
	RCV			
434	XMT or RCV	В	CD (response from Modem) did not turn OFF	Remote unit is defective.
			within 180 sec. after receiver detected FLAG	FCB PCB or LCU/LCE PCB is defective.
	l l		signal.	
436	G3 RX	С	DCN received after transmitting FTT.	Transmitter is defective or incompatible.
				Line quality is poor.
456	RCV	В	Received relay transfer request or confidential	
			document to distribute to a end receiving station	
4.55	BEL AVGG (F		or all confidential mailboxes are used.	
457	RELAYXMT	В	Remote unit does not have Relayed XMT or	
	CONF.XMT/		Confidential Comm. capability.	
459	RCV	С	Failed training in Phase C.	
409	ncv	C	raneo training in Filase C.	Line quality is poor. (Training signal is distorted due to line noise)
				FCB PCB or LCU/LCE PCB are defective.
490	RCV	С	Sum of error line exceeded the limit (Parameter	Line quality is poor.
400		Ŭ	70) by 64 lines.	FCB PCB or LCU/LCE PCB are defective.
494	RCV	С	Interval between two EOLs was more than 10	Transmitter is defective.
		٠.	sec. when receiver received message data.	Line quality is poor. (EOL is damaged due to
				line noise)
			,	FCB PCB or LCU/LCE PCB are defective.
495	XMT/RCV	С	During reception, CD turned OFF or continued	Line is disconnected.
			ON for long time.	Transmitter is defective.
			During communication, lost loop - current.	FCB PCB or LCU/LCE PCB are defective.
	XMT	С	CS of modem is not able to turn ON.	FCB PCB is defective.
501	XMT/	В	Remote unit does not have Modem	
	RCV(V.34)		compatibility.	
502	XMT/	B, C, D	During reception, CD turned OFF or continued	Line is disconnected.
	RCV(V.34)		ON for long time.	Transmitter is defective.
			During communication, lost loop - current.	FCB PCB or LCU/LCE PCB are defective.
503	XMT/	B, C, D	CS of modem is not able to turn ON during	FCB PCB is defective.
504	RCV(V.34)	В	training.	Line is disconnected.
504	RCV/V.34 (Polling)	В	Polling is rejected from the remote station.	No polling document is set.
505	XMT/V.34	В	Polling XMT is rejected.	No polling document is set.
303	(Polling)	Б	Foling XW1 is rejected.	livo politing document is set.
540	XMT ECM	В	No response after transmitting 3rd CTC or DCN	Incompatible interface
U+U	CIVI LOIVI	5	received.	moonpatible intellace.
541	XMT ECM	D	No response after transmitting 3rd EOR or	Line is faulty.
		-	received DCN.	LCU/LCE PCB abnormal.
542	XMT ECM	D	No response to the 3rd RR transmitted or	Remote unit is abnormal.
_		_	received DCN.	
543	XMT ECM	D	T5 timer (60 sec.) elapsed without MCF.	Remote unit is abnormal.
	XMT ECM	D	Stopped Transmission after EOR Transmission.	Line is faulty.
				LCU/LCE PCB abnormal.
550	RCV ECM	Ç	Timer between frames in phase C has elapsed.	Defective remote station.
554	RCV ECM	D	Transmitted ERR after receiving EOR.	Faulty line.
555	RCV ECM	D	Transmitted PIN after receiving EOR.	Faulty line and Operator Call requested by RX
				side.
570	RCV	В	Password or machine code did not match during	
			remote diagnostic communication.	
571	XMT	В	Remote unit did not have the remote diagnostic	
			function.	
	XMT	В	Sub-address transmission to a unit that has their	Sub-address transmission to a unit that has no
580	VIN1.}		DIS bit 49 (NSF bit 155) OFF.	Sub-address function.

	· Information Codes				
Code	Mode	Phase	Description of Problem	Cause	
581	XMT	В	Sub-address Password transmission to a unit that has their DIS bit 50 (NSF bit 156) OFF.	Sub-address transmission to a unit that has no Sub-address function.	
601	XMT		ADF Door was opened during ADF transmission.		
623	XMT	A	No document was in the ADF. (Built-in dialer engaged)	Operator removed the document from the ADF after dialing was completed. Document is not set properly in the ADF.	
630	XMT or RCV(Polling)	В	Redial count over.	No dial tone detected. Sensor dial tone is not detected. (country dependent) Busy tone is detected. (country dependent) T1 timer (35±5 sec) elapsed without a signal from the receiver.	
631	XMT	Α	"STOP" button was pressed during Auto Dialing.		
634	ХМТ		Redial count over with no response or busy tone was not detected. Note: U.S.A. models will redial only once if busy tone is not detected. Canadian models will not redial when the communication falls due to no response from the called station.		
638	XMT		Power turned off with applicable data in memory or during communication.	Power switched off. Power failure occurred.	
800	Relay Comm.		The machine was requested to relay a document but has no Relay Hub capability.		
814	Conf. XMT Conf. Polling Relay Comm.		The remote station does not have Relay XMT nor Confidential Communication capability.		
815	Conf. RCV		Mailbox is full.		
816	Conf. Polled		The received Polling Password did not match.		
825	Conf. RCV Conf. Polled		Parameter settings of the remote station are not properly set.		
870	MEM XMT Multi-Copy		Memory overflow occurred while storing documents into memory.		

Diagnostic Codes 4.8

The 13-digit Diagnostic Code is provided for the service engineer to analyze how the communication was performed. The code is recorded on the Journal.

Journal Example

***	*****	-JOUR	NAL-	*****	******	****** DATE 12-J	AN-1999	***** T	IME 09:39******
NO.	СОММ	. PAGES	FILE	DURATION	I X/R	IDENTIFICATION	DATE	TIME	DIAGNOSTIC
01	OK	001	129	00:00:42	XMT	123 456 789	12-JAN	01:55	C8649003C0000
								1st digit	13th digit
						- PANA	ASONIC PA	ANAFAX	HF-895
****	*****	*****	*****	**** DAN					
				**** - PAN	IAFAX	OL -090	12345678	901234	20/090-

1st Digit: Manufacturer Code -: Not used/defined

Data	1	Definition						
	Manufacturer Code							
0								
1	Casio							
2	Canon							
3	Sanyo							
4	Sharp							
5	Tamura							
6	Toshiba							
7	NEC							
8	Oki							
9	Hitachi							
Α	Xerox							
В	Fujitsu							
С	Matsushita							
D	Mitsubishi							
E	Murata							
F	Ricoh							

2nd Digit

-: Not used/defined

Data	Definition						
	ID (TSI, CSI, CIG)	RTN	DCN	STOP Button			
0	-	•	•	-			
1	Received	•	-	-			
2	-	Received	-	•			
3	Received	Received	-	•			
4	-	•	Received	-			
5	Received	-	Received	•			
6	-	Received	Received	•			
7	Received	Received	Received	•			
8	-	•	•	Pressed			
9	Received	•	-	Pressed			
Α	-	Received	-	Pressed			
В	Received	Received	•	Pressed			
С	•	-	Received	Pressed			
D	Received	-	Received	Pressed			
E	-	Received	Received	Pressed			
F	Received	Received	Received	Pressed			

Data	Definition					
	Resolution (dpi)	Paper Width				
0	-	A4				
1	S-Fine	A4				
2	400 x 400	A4				
3	300 x 300	A 4				
4	-	B4				
5	S-Fine	B4				
6	400 x 400	B4				
7	300 x 300	B4				
8	-	• .				
9	-	•				
A	-	•				
В	-	•				
С		A3				
D	S-Fine	A3				
E	400 x 400	A3				
F	300 x 300	A3				

4th Digit -: Not used/defined

Data	Definition					
	Scanning Rate	Resolution				
0	20 ms/line	Std				
1	5 ms/line	Std				
2	10 ms/line	Std				
3		Std				
4	40 ms/line	Std				
5	•	Std				
6	-	Std				
7	0 ms/line	Std				
8	20 ms/line	Fine				
9	5 ms/line	Fine				
Α	10 ms/line	Fine				
В	•	Fine				
С	40 ms/line	Fine				
D	•	Fine				
E	-	Fine				
F	0 ms/line	Fine				

Data	Definition					
	Deferred Comm.	Dialing/RCV	Memory/Non-Memory			
0	•	Manual Communication	Non-Memory			
1	Used	Manual Communication	Non-Memory			
2	•	Auto Dialing	Non-Memory			
3	Used	Auto Dialing	Non-Memory			
4	-	Auto RCV	Non-Memory			
5	Used	Auto RCV	Non-Memory			
6	-	Remote RCV	Non-Memory			
7	Used	Remote RCV	Non-Memory			
8	. •	Manual Communication	Memory			
9	Used	Manual Communication	Memory			
Α	-	Auto Dialing	Memory			
В	Used	Auto Dialing	Memory			
С	-	Auto RCV	Memory			
D	Used	Auto RCV	Memory			
E	-	Remote RCV	Memory			
F	Used	Remote RCV	Memory			

Data	Definition						
	Polling	XMT/RCV	Selective Comm.	Password Comm.			
0	-	RCV	Off	Off			
1	Yes	RCV	Off	Off			
2	-	XMT	Off	Off			
3	Yes	XMT	Off	Off			
4	•	RCV	On	Off			
5	Yes	RCV	On	Off			
6		XMT	On	Off			
7	Yes	XMT	On	Off			
8	•	RCV	Off	On			
9	Yes	RCV	Off	On			
A		XMT	Off	On			
В	Yes	XMT	Off	On			
С	-	RCV	On	On			
D	Yes	RCV	On	On			
E	-	XMT	On	On			
F	Yes	XMT	On	On			

7th Digit
-: Not used/defined

Data	Definition						
	Sub-address Comm.	Confidential Comm.	Relayed Comm.	Turnaround Polling			
0	•	-	•	-			
1	Yes	-	•	•			
2	•	Yes	•	-			
3	Yes	Yes	•	-			
4	-	•	Yes	-			
5	Yes	•	Yes	-			
6	-	Yes	Yes				
7	Yes	Yes	Yes	•			
8	•		•	Yes			
9	Yes	-	-	Yes			
Α	•	Yes	-	Yes			
В	Yes	Yes	-	Yes			
С	•	-	Yes	Yes			
D	Yes	•	Yes	Yes			
Ē	-	Yes	Yes	Yes			
F	Yes	Yes	Yes	Yes			

Data	Definition						
	Advanced Comm.	Cover Sheet XMT					
0	-	•					
1	Report XMT	•					
2	Check & Call	•	·	~			
3	-	•					
4	Memory Transfer	-					
5	-	•					
6	-	-					
7	•	-					
8	-	Yes					
9	Report XMT	Yes					
, A	Check & Call	Yes					
В		Yes					
С	Memory Transfer	Yes					
D ·	-	Yes					
E	-	Yes					
F	-	Yes					

Data	Definition					
-	Short Protocol	Standard/ Non-Standard				
0	•	Standard				
1	•	Standard				
2	-	Standard				
3	-	Standard				
4	-	Standard				
5	-	Standard				
6	-	Standard				
7		Standard				
8	-	Non-Standard				
9	В	Non-Standard				
Α	-	Non-Standard				
В	D	Non-Standard				
С	-	Non-Standard				
D	В	Non-Standard				
E	-	Non-Standard				
F	D	Non-Standard				

Data		E	Pefinition
<u> </u>	Coding	ECM	
0	МН	-	
1	MR	•	
2	MMR	-	
3	JBIG	•	
4	•	-	
5	-	•	
6	•	•	
7	•	-	
8	МН	Yes	
9	MR	Yes	
A	MMR	Yes	
В	JBIG	Yes	
С	•	Yes	
D	-	Yes	
E	-	Yes	
F	-	Yes	

Data	Definition						
	Symbol Rate (V.34)	V.34					
0	-	-					
1	•	-					
2	-	-					
3	-	-					
4	-	-					
5	-	•					
6	-	-					
7	-	*					
8	2400 sr	Yes					
9	-	Yes	·				
Α	2800 sr	Yes					
В	3000 sr	Yes					
C	3200 sr	Yes					
D	3429 sr	Yes					
E	•	Yes					
F	•	Yes					

Data	Definition				
	Modem Speed	Modem Speed (V.34)			
0	2400 bps	-			
1	4800 bps	2400 bps			
2	7200 bps	4800 bps			
3	9600 bps	7200 bps			
4	TC 7200 bps	9600 bps			
5	TC 9600 bps	12000 bps			
6	12000 bps	14400 bps			
7	14400 bps	16800 bps			
8	-	19200 bps			
9	•	21600 bps			
Α	•	24000 bps			
В	•	26400 bps			
С	-	28800 bps			
D	-	31200 bps			
E		33600 bps			
F	•	•			

Data	Definition				
0					
1					
2					
3					
4					
5					
6					
7					
8					
9					
A					
В					
С					
D					
E					
F		·			

5 Service Modes

5.1 Service Mode Table

The following service modes are provided to assist you in setting operational functions of the unit and determining the condition of the unit.

No.	Service Mode	Description
1	Function Parameter Setting	Allows changes to the function parameters (the home position, etc).
2	Not used	
3	Print Parameter List / Reports	Prints the Function Parameter List, Page Memory Test, Printer Report, All Document File, Protocol Trace and Toner Order Form.
4	Modem Tests	Generates various binary tonal or DTMF signals, by the modem.
5	Diagnostic	Performs various hardware tests.
6	RAM Initialization	Initialize RAM and restore the default value of the function parameters.
7	LBP Service Mode	Changes the Printer Parameters (the home position, etc.).
8	Check & Call	Enters some information for Service Alert Report, Maintenance Alert Report and Toner Order Form.
9	System Maintenance	Update the firmware, backup the parameter settings.

5.2 Service Mode 1 (Function Parameter Setting)

Use the following procedure to change the function parameters.

FUNCTION" and then "7". MONITOR" four times, then press "*". 1".	12-JAN-1999 15:00 00% SET MODE (1-6) ENTER NO. OR V A SERVICE MODE ENTER NO. OR V A PARAMETER (000-199) ENTER PARAMETER #_
MONITOR" four times, then press "*". 1". The Function Parameter Number.	SET MODE (1-6) ENTER NO. OR V A SERVICE MODE ENTER NO. OR V A PARAMETER (000-199) ENTER PARAMETER #_
MONITOR" four times, then press "*". 1". The Function Parameter Number.	SERVICE MODE ENTER NO. OR V A PARAMETER (000-199) ENTER PARAMETER #_
1". ne Function Parameter Number.	SERVICE MODE ENTER NO. OR V A PARAMETER (000-199) ENTER PARAMETER #_
1". ne Function Parameter Number.	PARAMETER (000-199) ENTER PARAMETER #_
1". ne Function Parameter Number.	PARAMETER (000-199) ENTER PARAMETER #_
ne Function Parameter Number.	ENTER PARAMETER #_
	ENTER PARAMETER #_
and a the flat ADM STATILISE. Feder 10041 and proce ISETT	
anging the "ALARM STATUS" Enter "001" and press [SET].	PARAMETER #001 ALARM STATUS?
START"	
	ALARM STATUS:Timer 1:OFF 2:Tmr 3:CONST
ne new setting value	·
	ALARM STATUS:Const. 1:OFF 2:Tmr 3:CONST
START". The new value will be stored and the next parameter will be	
ed.	PARAMETER #002 STOP COMM.JRNL?
	12-JAN-1999 15:00
	START". the new setting value. ther "3" for Constant. START". The new value will be stored and the next parameter will be ed. It steps 4 through 7 to change other Function Parameters or Press "twice to return to standby.

Note

The following buttons provide these functions in the test mode:

"START": The new setting value is stored in the machine.

"V" : Scroll the function parameter number down.

"\lambda" : Scroll the function parameter number up.

No.	Parameter (see Note 3)	Function Paramete Selections	Function
000	MON/TEL DIAL	1 = Monitor	Selects whether the machine starts to TX
000	WON TEE BIAE	2 = TEL/DIAL	automatically during On-Hook dialing.
		Z-TEUDIAL	(Monitor: Start to TX after pressing START)
			(TEL/DIAL: Start to TX automatically)
001	ALARM STATUS	1 = OFF	Selects the No Paper or No Toner alarm status.
001	ALARIW STATOS	2 = Timer (6 sec.)	OFF : Alarm is disabled.
		3 = Constant	Timer: Alarm will shut off after 6 seconds.
		3 = Ooristant	Constant : Alarm will not stop until "STOP" is
			pressed or the error is cleared/corrected.
002	STOP COMM. JRNL	1 = Off	Selects whether the machine prompts to print the
002	STOP COMM. SHIVE	2 = On	COMM. Journal when the printout condition is set
		2 - 011	to INC and STOP is pressed during
			communication.
003	CONTINUOUS POLL	1 = Off	Selects whether the Continuous Polling feature is
003	(See Note 4)	2 = Stn (Tx only)	enabled.
	(366 (4016 4)	3 = Hub (Rx only)	Stn:
		0 = 11db (1tx only)	Place the document(s) to be retrieved from a
			remote station and press [P8] key to store it into the
			memory.
			Hub:
			When the polling command is initiated, the machine
			will continuously poll documents from the remote
			stations until it is interrupted by pressing "STOP".
004	NUMERIC ID SET	1 = Off (will not accept)	Selects whether the machine accepts and allows to
004	110112111012	2 = On (accepts)	set or change the Numeric ID.
005	Not Used		
006	ID DISPLAY	1 = Number (Numeric ID)	Selects the priority of displaying the ID.
000	DISPLAT	2 = Chara (Character ID)	Selects the phonty of displaying the ID.
007	JNL COLUMN	1 = Preset station name	Selects the contents of the ID to display on the
007	SIVE COLOMIN	2 = Received ID	Journal.
008	MONITOR	1 = Off	Selects whether the Monitor is ON/OFF for
000	MONTON	2 = On	monitoring fax signals.
		2 - 011	(FOR SERVICE USE ONLY)
009	IDC LOOP	1 = Off (Normal)	Selects a false Off Hook state for back to back
003	DO 2001	2 = On (Off Hook)	communication test.
010	TX LEVEL	00 = 0 dBm	Selects the TX signal output level, 0 to -15 dBm in 1
0.0	17 52 422	~	dBm steps. (Refer to Chapter 4.3)
		15 = -15 dBm	(1010) to 01125101 110)
011	RX LEVEL	1 = -43 dBm	Selects the receiving sensitivity of -33/-38/-43/-48
0.1	TIX ELVEL	2 = -38 dBm	dBm.
		3 = -33 dBm	(Refer to Chapter 4.3)
		4 = -48 dBm	(Total to ottapion 4.0)
012	DTMF LEVEL	00 = 0 dBm	Selects the DTMF output level, 0 to -15 dBm in 1
012	DIVIN EEVEE	~ O D D	dBm steps.
	<u>L</u>	15 = -15 dBm	
010	G3 RX EQL	1 = 0dB	Selects the cable equalizer for G3 reception mode,
013	GO TA EUL	1 = 00B 2 = 4dB	OdB, 4dB, 8dB or 12dB.
		2 = 40B 3 = 8dB	oub, 405, oub or 1205.
		3 = 80B 4 = 12dB	
011	C2 TV EO!	4 = 120B 1 = 0dB	Selects the cable equalizer for G3 transmission
014	G3 TX EQL	1 = 00B 2 = 4dB	mode, 0dB, 4dB, 8dB or 12dB.
			inioue, oub, 4ub, oub of 12ub.
		3 = 8dB 4 = 12dB	
046	Not Used	T = 124D	
	NOLUSEU		
~ 016			
016	TV STADT	1 - 2400 has	Colorto the transmission made a start aread
017	TX START	1 = 2400 bps	Selects the transmission modem start speed,
		2 = 4800 bps	14400/12000/TC9600/TC7200/9600/7200/4800/
		3 = 7200 bps	2400 bps.
		4 = 9600 bps	Note:
		5 = TC7200 bps	This parameter is applicable only when
		6 = TC9600 bps	communicating with regular G3 machines.
		6 = TC9600 bps 7 = 12000 bps 8 = 14400 bps	When communicating with regular G3 machines. When communicating with Super G3 (V.34) machines, use Parameter No. 32.

		Function Parameter	
No.	Parameter (see Note 3)	Selections	Function
018	RX START	1 = 2400 bps	Selects the reception modern start speed, 14400/
		2 = 4800 bps	12000/TC9600/TC7200/9600/7200/4800/2400 bps
		3 = 7200 bps	Note:
		4 = 9600 bps	This parameter is applicable only when
		5 = TC7200 bps	communicating with regular G3 machines.
		6 = TC9600 bps	When communicating with Super G3 (V.34)
		7 = 12000 bps	machines, use Parameter No. 33.
040	UTILITY OF	8 = 14400 bps	Colocte whether the ITLLT V.24 is Off. On as Coloct
019	ITU-T V.34	1 = Off	Selects whether the ITU-T V.34 is Off, On or Select (Select: Select whether the ITU-T V.34 is Off or On,
		2 = On 3 = Select	when entering One-Touch/Abbreviated Dialing
		3 = Select	Numbers or Manual Number Dialing.)
000	UTU T FOM	d Of (Invelled)	Select the ECM mode.
020	ITU-T ECM	1 = Off (Invalid)	Select the ECM mode.
004	ED TONE	2 = On (Valid)	Colorte the area are test tone on V 00 mode. On
021	EP TONE	1 = Off (without EP Tone)	Selects the echo protect tone on V.29 mode, On
		2 = On (with EP Tone)	(add) or Off (Not add).
	OLONIAL INTERVAL		(Used when Echo Suppression is disabled.)
022	SIGNAL INTERVAL	1 = 100 ms	Selects the time interval between the receiving
		2 = 200 ms	signal and the transmitting signal.
		3 = 500 ms	
023	TCF CHECK	1 = Normal (Short)	Selects the TCF check interval Long/Short
		2 = Long	
024	CED FREQUENCY	1 = 1080 Hz (non CCITT)	Selects the CED frequency 2100/1080 Hz
		2 = 2100 Hz	
025	COMM. START-UP	1 = 1'st response	Selects the communication start-up condition (XMT
		2 = 2'nd response	and Polling).
			(Used when Echo Suppression is disabled.)
026	NON-STANDARD	1 = Off (Invalid)	Selects own mode (Panafax mode).
		2 = On (Valid)	
027	SHORT PROTOCOL B	1 = Off (Invalid)	Selects the short protocol mode.
		2 = On (Valid)	
028	SHORT PROTOCOL D	1 = Off (Invalid)	Selects the short protocol mode.
	}	2 = On (Valid)	
029	REMOTE DIAGNOSTICS	1 = Off (will not accept)	Selects whether the machine accepts the Remote
		2 = On (accepts)	Diagnostics from the service station.
030	CED & 300 bps	1 = 75 ms	Selects the pause interval between the CED and
		2 = 1 sec	the 300 bps signal. (Used when Echo Suppression
			is disabled.)
031	RTC = EOLx12	1 = Off (EOLx6)	Selects the RTC signal, EOLx6 or EOLx12.
		2 = On (EOLx12)	
032	V34 TX START	2400-33600bps	Selects the transmission modem start speed in
			V.34 communication, 33600-2400 bps.
033	V34 RX START	2400-33600bps	Selects the receiving modern start speed in V.34
			communication, 33600-2400 bps.
034	V34 TX Symbol Rate	2400-3429sr	Selects the transmission symbol rate for V.34,
			3429/3200/3000/2800/2400 sr.
			Press "\" or "\" to select the symbol rate.
035	V34 RX Symbol Rate	2400-3429sr	Selects receibing symbol rate for V.34,
•	To this common that	2.000.200.	3429/3429/3200/3000/2800/2400 sr.
			Press "\" or "\" to select the symbol rate.
036	Not Used		
037	PROTOCOL DISPLAY	1 = Off (not displayed)	Selects whether to display the modern speed
001	I TOTOGOL DIGILAT	2 = On (displayed)	during communication. (Press "\" or "\" to display)
000	Not used	2 - On (displayed)	during communication. (Fless V of A to display)
038	Not used	5 50	Oalaska Marana
039	FLASH TIME	5 = 50 ms	Selects the pause interval before activating the
		400 4000	Flash key.
		100 = 1000 ms	
		 	to all and a the second of the second but a
040	E/F TIME (For Germany,	5 = 50 ms	Selects the pause interval before activating the
040	E/F TIME (For Germany, Austria and Switzerland only)	-	Flash key.
040	Austria and Switzerland only)	5 = 50 ms - 100 = 1000 ms	
040		-	Flash key. Selects the pause interval from 1 sec. ~ 10 sec. for
	Austria and Switzerland only)	- 100 = 1000 ms	Flash key.
041	Austria and Switzerland only) PAUSE TIME	- 100 = 1000 ms	Flash key. Selects the pause interval from 1 sec. ~ 10 sec. for
041	Austria and Switzerland only)	 100 = 1000 ms 1 = 1 sec. 	Flash key. Selects the pause interval from 1 sec. ~ 10 sec. for dialing through a switchboard or for international
041	Austria and Switzerland only) PAUSE TIME	100 = 1000 ms 1 = 1 sec. 10 = 10 sec.	Flash key. Selects the pause interval from 1 sec. ~ 10 sec. for dialing through a switchboard or for international calls.
041	Austria and Switzerland only) PAUSE TIME Not used	 100 = 1000 ms 1 = 1 sec. 	Flash key. Selects the pause interval from 1 sec. ~ 10 sec. for dialing through a switchboard or for international

No.	Parameter (see Note 3)	Function Parameter T Selections	Function
044	REDIAL COUNT	0 = no redial	Selects the redial count from 0 to 15 times in 1 step
044	REDIAL COUNT	- 15 = 15 times	intervals.
045	RING DETECT COUNT	1 = 1 ring	Selects the ring detection count from 1 to 9 rings in
045	HING DETECT COOM	~ 9 = 9 rings	1 ring step intervals.
046	ON-HOOK TIME	0 = 0 sec.	Selects the on-hook time between sequential
040	ON-HOOK TIME	~ 90 = 90 sec.	communication calls in 1 second step intervals.
047	RESPONSE WAIT	1 = 1 sec.	Selects the waiting interval for the response after
047	RESPONSE WAIT	~ 90 ≈ 90 sec.	completing the dialing.
048	Not used	00 - 00 000.	
049	Two cases		
050	RING DETECT MODE	1 = Normal	Selects the quality of ringer detection. Use if the
•••		2 = Rough	line signal is out of regulation, set to "Rough" so that the unit may detect the ringing signals.
051	INTERNATIONAL DT MODE	1 = Off	Selects whether to distinguish the 4-digit
	(For Belgium, France and Spain version only.)	2 = On	international access code prefix.
052	PULSE RATE	1 = 10 pps	Selects the dial pulse rate 10/20 pps.
		2 = 20 pps	
053 054	Not used		
055	BUSY TONE CHECK	1 = Off	Selects whether to detect the Busy Tone.
		2 = On	
056	DIAL TONE CHECK	1 = Off	Selects whether to detect dial tone before dialing
	(Except for USA and Canada version)	2 = On	the telephone number.
057	DC LOOP CHECK	1 = Off (will not check)	Selects whether the unit checks the DC Loop
	(Except for USA and Canada version)	2 = On (checks)	during communication.
058	COMM.JRNL +IMAGE	1 = Off (without image)	Selects whether the machine prints the COMM.
		2 = On (with image)	Journal with image.
059	CONFIDENTIAL RCV	1 = Off (does not print out)	Selects whether the machine prints the
	REPORT	2 = On (prints out)	CONFIDENTIAL RCV REPORT.
060	VERSION	Indicates the ROM version.	
061	TX/RX//PRT/CPY COUNTER	TX/RX/PRT/CPY	Displays the transmitted, received, total printed and copied document count.
062	PRINT COUNTER	1 = Off	Selects whether to print in the Fax Parameter List,
		2 = On	the counter information that is displayed in the Function Parameter No. 61.
063	Not used		
~			
069			
070	LINE ERROR	1 = 128 lines	1.
		2 = 256 lines	Selects the line disconnect condition during recep-
		3 = 512 lines	tion. If the number of line errors exceed this setting,
		4 = 1024 lines	the unit will disconnect the line.
	·	5 = 2048 lines	2.
		6 = Off (will not disconnect line)	Selects the transmit condition of RTP/PIP or RTM/
			PIN. (Available if No.73 ERROR DETECT is set to "LINES") (See Note 1)
071	TOTAL ERROR	1 = 5%	Selects the transmit condition of RTP/PIP or RTM/
		2 = 10%	PIN.
		3 = 15%	(Available if No.73 ERROR DETECT is set to
		4 = 20%	"RATE") (See Note 2)
072	CONTINUOUS ERROR	1 = Off (unlimited)	Selects the continuous total error criteria of Off/3/6
		2 = 3 lines/STD	or 12 lines in Standard mode. If continuous total
		3 = 6 lines/STD	error exceeds this setting, the unit will transmit
		4 = 12 lines/STD	RTN/PIN. (Available if No.73 ERROR DETECT is set to "RATE".)
073	ERROR DETECT	1 = Lines	Selects the error detect condition Lines/Rate.
		2 = Rate	
074	RTN RECEIVE	1 = Disconnect 2 = Continue	Selects whether to disconnect the phone line or continue when "RTN" is received.
	1		

	Function Parameter Table						
No.	Parameter (see Note 3)	Selections	Function				
075	MH/MR/MMR/JBIG	1 = MH (MH only) 2 = MR (MH or MR) 3 = MMR (MH or MR or MMR) 4 = JBIG	Selects the coding scheme.				
076	Not used						
077	RX JAM LENGTH	1 = Off (unlimited) 2 = 2 m 3 = 8 m	Selects the maximum length of a received document that can be printed.				
078 079	Not used						
080	DOC TOP FEED	-5.0 mm +5.0 mm	Adjusts the distance between the scanning sensor ON position and the scanning start position.				
081	DOC END FEED	-5.0 mm +5.0 mm	Adjusts the distance between the scanning sensor OFF position and the scanning end position.				
082	JAM LENGTH	1 = 1 m 2 = 2 m 3 = 8 m 4 = Unlimited	Selects the maximum length of the document that can be scanned.				
083	Not used						
084	LINE AS NO PAPER	1 = Ring (ring) 2 = Busy (keep line busy)	Selects whether to ring or send a busy tone to the remote station when the recording paper runs out or the unit cannot receive because of any trouble.				
085	Not used						
086	REDUCTION FINE	1 = Off 2 = On	Selects whether the resolution is preset to Fine, when sending with reduction B4→A4.				
087	DARKER LEVEL	0 = Darkest Contrast	Selects the contrast level.				
088	NORMAL LEVEL	~	0← →15				
089	LIGHTER LEVEL	15 = Lightest Contrast	Darkest← →Lightest				
090	(See Note 4)	1 = Off 2 = On (Default)	Selects whether the machine will continue the transmission and send the remaining document(s) from the ADF when the memory reaches 100% (Memory Overflow) while storing the documents.				
091	Not used						
092	SMOOTHING	1 = Off 2 = On	Selects whether the smoothing function is available.				
093	Not used						
099							

Note 1: No. 070 LINE ERROR-Transmit condition of RTP/PIP or RTN/PIN

Clanal	Setting					
Signal	1:128	2:256	3:512	4:1024	5:2048	6:Off
MCF/PIP	0-31	0-63	0-127	0-255	0-511	Aiways
RTP/PIP	32-63	64-127	128-255	256-511	512-1023	-
RTN/PIN	64-127	128-255	256-511	512-1023	1024-2047	-

Note 2: No. 071 TOTAL ERROR-Transmit condition of RTP/PIP or RTN/PIN

Cianal	Setting				
Signal	1:5%	2:10%	3:15%	4:20%	
MCF/PIP	0-2	0-4	0-7	0-9	
RTP/PIP	3-4	5-9	8-14	10-19	
RTN/PIN	5-	10-	15-	20-	

Note 3:

The default setting of parameters depends on the country's specifications or regulations. Print the Function Parameter List to confirm the default settings.

Note 4:

This parameter will be available as a running change in the future.

5.3 Service Mode 3 (Printout of Lists, Reports and Test Results)

From this Service Mode you can print the Function Parameter List, Page Memory Test, Printer Report, All Document File, Protocol Trace and the Toner Order Form.

5.3.1 Function Parameter List

A list of all Funcion Parameters can be printed by the following procedure.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "3".	PRINTOUT (1-7) 1:FUNC. PARAM. LIST
5	Press "START".	* PRINTING * FUNC. PARAMETER LIST
6	After printing is completed, the unit returns to the display in step 3.	SERVICE MODE ENTER NO. OR VA
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%

Function Parameter List (Sample)

```
00 MON/TEL DIAL: [Monitor] Monitor
                                         50 RING DET MODE: [Normal] Normal
01 ALARM STATUS: [Timer] Timer
                                          51 -----
                                         52 PULSE RATE: [10pps]. 10pps
02 STOP COMM.JRNL:[On] On
03 CONTINUOUS POLL:[Off] Off
                                           53 -----
04 NUMERIC ID SET:[On] On
                                           54 -----
                                           55 BUSY TONE CHECK: [On] On
0.5
06 ID DISPLAY: [Chara] Chara
                                           56 -----
                                           57 -----
07 JNL COLUMN: [Station] Station
                                           58 COMM. JRNL + IMAGE: [On] On
08 MONITOR: [Off] Off
09 DC LOOP: [Off] Off
                                           59 CONF.RCV REPORT: [On] On
                                          60 VERSION: UF-895 ALV02100AU
10 TX LEVEL: [-9dBm] -9dBm
                                           61 TX/RX/PRT/CPY:000050/000058/000074/000016
11 RX LEVEL: [-43dBm] -43dBm
12 DTMF LEVEL: [-5dBm] -5dBm
                                          62 PRINT COUNTER: [Off] Off
13 G3 RX EQL: [0dB] 0dB
                                           63 -----
14 G3 TX EQL: [0dB] 0dB
                                           64 -----
                                           65 -----
15 -----
16 -----
                                           66 -----
17 TX START: [14400bps ] 14400bps
18 RX START: [14400bps ] 14400bps
                                           67 -----
                                           68 -----
19 ITU-T V.34:[On] On
                                           69 -----
                                           70 LINE ERROR: [128] 128
20 ITU-T ECM: [On] On
21 EP TONE: [Off] Off
                                           71 TOTAL ERROR: [ 10] 10
22 SIG. INTERVAL: [500ms] 500ms
                                           72 CONTI. ERROR: [Off] Off
                                      74 RTN RECEIVE: [Discon] Discon
75 MH/MR/MMP/TBTC (TOTAL)
                                          73 ERROR DETECT: [Rate] Rate
23 TCF CHECK: [Normal] Normal
24 CED FREQ.:[2100Hz] 2100Hz
25 COMM. START-UP: [1'st] 1'st
                                          76 -----
26 NON-STANDARD: [On] On
27 SHORT PROTOCOL B:[On] On
                                           77 RX JAM LENGTH: [2 m] 2 m
28 SHORT PROTOCOL D: [On] On
                                           78 -----
29 REMOTE DIAG.:[On] On
                                           79 -----
30 CED & 300bps:[75ms] 75ms
                                           80 DOC TOP FEED: [0.0mm] 0.0mm
                                          81 DOC END FEED: [0.0mm] 0.0mm
31 RTC=EQL x 12:[Off] Off 81 DOC END FEED:[0.0mm]
32 V34 TX START:[33600bps] 33600bps 82 JAM LENGTH:[2 m] 2 m
33 V34 RX START:[33600bps] 33600bps 83 ------
31 RTC=EQL x 12:[Off] Off
                                          84 LINE AS NOPAPER: [Ring] Ring
34 V34 TX SR:[3429sr] 3429sr
35 V34 RX SR:[3429sr] 3429sr
                                          85 -----
                                           86 REDUCTION FINE: [On] On
36
                                          87 DARKER LEVEL: [4] 4
37 PROTOCOL DISPLAY: [Off] Off
38 -----
                                          88 NORMAL LEVEL: [8]
39 FLASH TIME: [500] 500ms
                                           89 LIGHTER LEVEL: [12] 12
40 -----
                                           90 CONTINUE FROM ADF: [On] On
41 PAUSE TIME: [3sec] 3sec
                                           91 -----
                                           92 SMOOTHING: [On] On
42
43 REDIAL INTERVAL: [3min] 3min
44 REDIAL COUNT: [5] 5
                                           94 -----
45 RING DET. COUNT: [2] 2
                                           95 -----
46 ON-HOOK TIME: [5sec] 5sec
                                           96 -----
47 RESPONSE WAIT: [55sec] 55sec
                                           97 -----
48
                                           98 -----
   Note: The power must be reset for the new parameter settings to take effect.
                                                            -PANASONIC
  ******************************* -PANAFAX- UF-885 - ****** -12345678901234567890- ***********
```

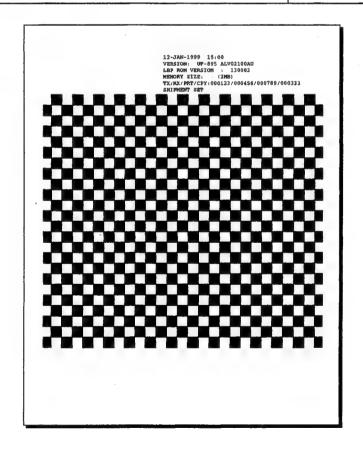
Note:

- 1. [] Factory Default
- 2. The contents of the Funcion Parameter List may vary depending on the country's regulations.
- 3. "*" mark will be shown on the left side of number when setting was changed from default.

5.3.2 Page Memory Test

A test pattern prints out for checking the page memory (IC120 and IC121 on the FCB PCB) and printer mechanism using the following procedure.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3	Press "MONITOR" four times, then press "".	SERVICE MODE ENTER NO. OR VA
4	Press "3".	PRINTOUT (1-7) 1:FUNC. PARAM. LIST
5	Press "3" and "START".	* PRINTING * PAGE MEMORY TEST
6	After printing is completed, the unit returns to the display in step 3.	SERVICE MODE ENTER NO. OR V A
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%



5.3.3 Printer Report

All printer errors are logged on the Printer Report which can be printed by the following procedure.

Step	Operation or Unit Condition	LCD Display	
1	Standby	12-JAN-1999 15:00 00%	
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA	
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR V A	
4	Press "3".	PRINTOUT (1-7) 1:FUNC. PARAM. LIST	
5	Press "4" and "START".	* PRINTING * PRINTER REPORT	
6	After printing is completed, the unit returns to the display in step 3.	SERVICE MODE ENTER NO. OR VA	
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%	

**************************************	DATE 12-JAN-1999 ***** TIME 19:02*******
LAST PRINT EXROR	: 12-JAN 15:38 NO. 001-13
CUSTOMER ID	: 1234567890123456
PAX ROW VERSION LEP ROW VERSION	: UF-895 ALVO2100AU : 130002
TRANSHIT COUNTER RECEIVE COUNTER COPY COUNTER PRINT COUNTER	: 000475 : 000398 : 001083 : 001128
PRIMT ERROR	: 1.12-3AN-1999 15:28 NO.001-12 2.10-3AN-1999 10:46 NO.001-11 1.09-3AN-1999 15:22 NO.004-36
	-PANASONIC -

1. Printer Error Code Table

Error Code	Description of Problems	Cause
00	No problem detected	
	The Timing Sensor turned OFF before a certain period of time.	Recording Paper Jam. Timing Sensor defective Appropriate action.
11	Timing Sensor did not turn ON within a certain period of time. (Original Cassette Feeder)	Incorrect paper size setting. Recording Paper misfeeding, Paper Feed Roller defective. Drive Clutch defective. Timing Separal defective.
12	Timing Sensor did not turn On within a certain period of time. (250 sheet Optional Cassette Feeder)	Timing Sensor defective. Recording Paper misfeeding, Paper Feed Roller defective. Drive Clutch defective.
13	Timing Sensor did not turn On within a certain period of time. (500 sheet Optional Cassette Feeder)	Timing Sensor defective. Recording Paper misfeeding, Paper Feed Roller defective. Drive Clutch defective.
14	Timing Sensor did not turn OFF within a certain period of time.	2. Timing Sensor defective
	Paper Eject Sensor did not turn ON within a certain period of time.	Incorrect paper size setting. Recording Paper Jam. Paper Eject Sensor defective.
	Paper Eject Sensor did not turn OFF within a certain period of time.	2. Paper Eject Sensor defective.
	Timing Sensor detected paper while initializing the unit.	Recording Paper jammed in the unit. Timing Sensor defective. Recording Paper jammed in the unit.
	Paper Cassette was removed while Recording Paper was Feeding. Paper Cassette was removed while Recording Paper was	Recording Paper jammed in the unit. Paper Eject Sensor defective. Recording Paper Jam.
	Feeding.	11. Fuser Unit defective.
	the circuit was activated.	2. LPC PCB defective. 3. LVPS defective.
23	Abnormally high Fuser Roller temperature after the circuit was de-activated.	Fuser Unit defective. LPC PCB defective. LVPS defective.
24	The temperature of the Fuser Roller was not controlled within a certain margin.	Fuser Unit defective. LPC PCB defective. LVPS defective.
25	Thermistor open.	Thermistor defective (Fuser Unit). LPC PCB defective.
26	Thermostat detected temperature over 200°C.	Thermostat defective (Fuser Unit). LPC PCB defective. LVPS defective.
31	The Polygon Motor did not reach a constant speed of 10000 rpm within a certain period of time.	
	The Polygon Motor did not maintain a constant speed of 10000 rpm.	1. LSU defective.
	HSYNC signal abnormal.	1. LSU defective. 2. LPC PCB defective.
	Fan does not rotate.	Fan defective. LPC PCB defective.
	A/D Converter error. Printer Motor Ready Signal abnormal.	LPC PCB defective. Connector is not properly connected. Printer Motor defective. LPC PCB defective.
61	Unit detected "No Toner Cartridge".	Toner Cartridge not installed. Toner Sensor defective.
63	Unit detected "Printer Door Open".	Printer door is not closed. ILS PCB defective.
64	Unit detected "No Cassette".	Cassette not installed or partially open. Cassette Sensor defective.
65	Unit detected "Out of Paper".	Cassette(s) ran out of receiving paper. Paper Detect Sensor defective.
68	Jam Access Cover of Optional 250 Sheet Feeder is open.	Jam Access Cover Sensor of Optional 250 Sheet Feeder defective.
69	Jam Access Cover of Optional 500 Sheet Feeder is open.	Jam Access Cover Sensor of Optional 500 Sheet Feeder defective.
71	Interface error occurs with the 500 sheet optional cassette.	CN101 is disconnected. CST3 PCB defective.

Note:

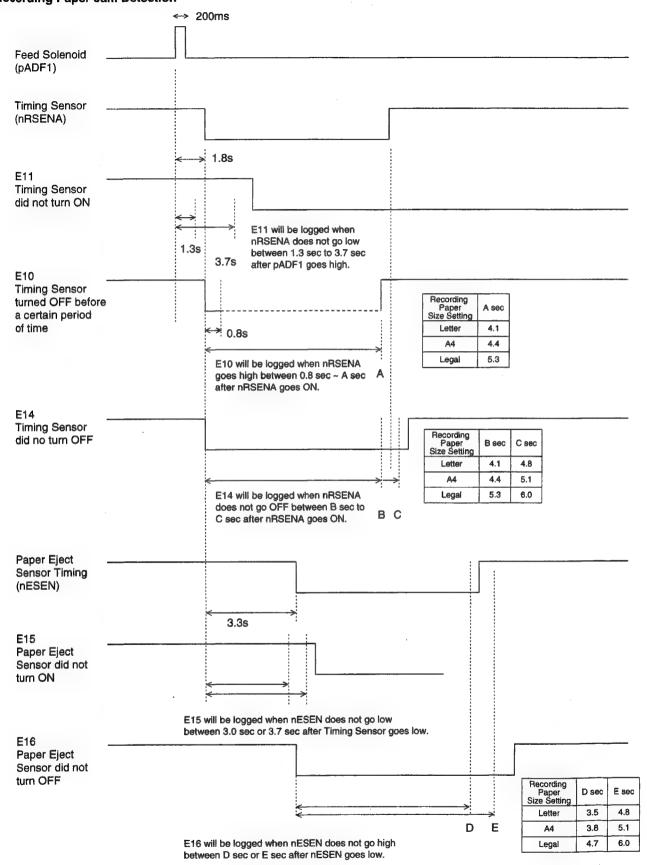
If an 021 series Error Code occurs, 021-25 (Thermistor Open) or 021-26 (Thermistor detected temperarure over 200 °C), a pre-programmed recovery safety software is activated to protect the unit and the service personnel during abnormal increase in temperature.

Once activated, this information is downloaded into the LPC PC Board's SRAM, disabling the Fuser Lamp and preventing it from turning ON again.

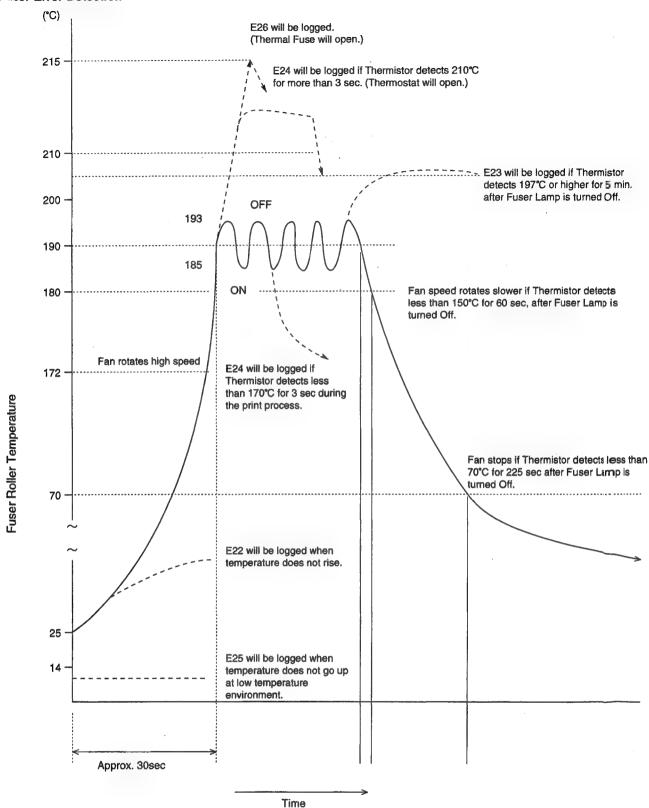
In order to reset this circuit, please follow the procedure below.

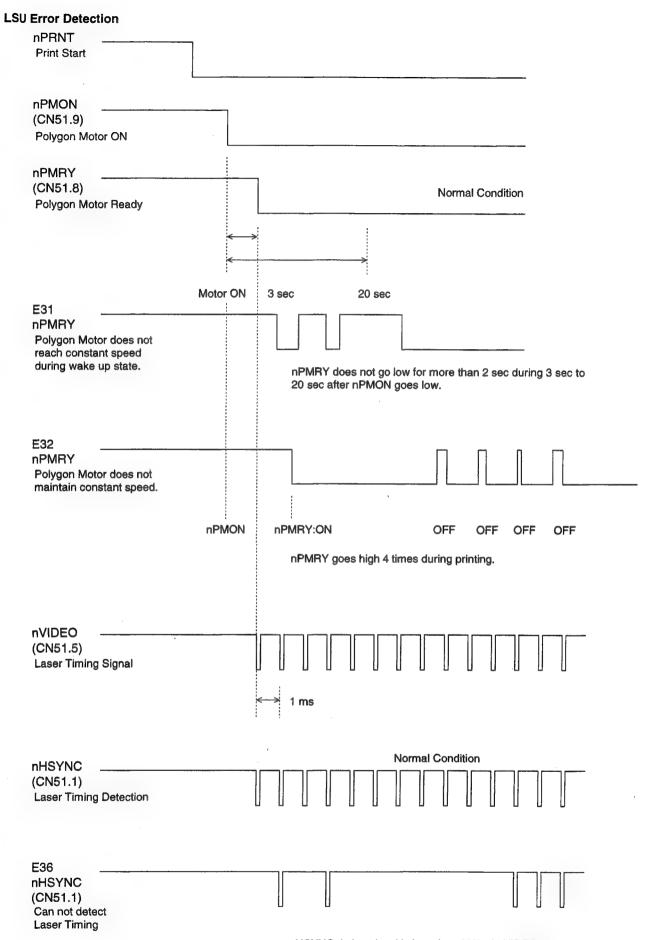
- 1) Reset the LBP Fuser by using Test Mode 7-1-2 (Section 5.6) and Power OFF/ON.
- 2) Replace the Thermistor or Fuser Unit. If the problem persists.
- 3) Replace the LPC PCB.

2. Printer Error Detail Explanation Recording Paper Jam Detection



Fuser Error Detection

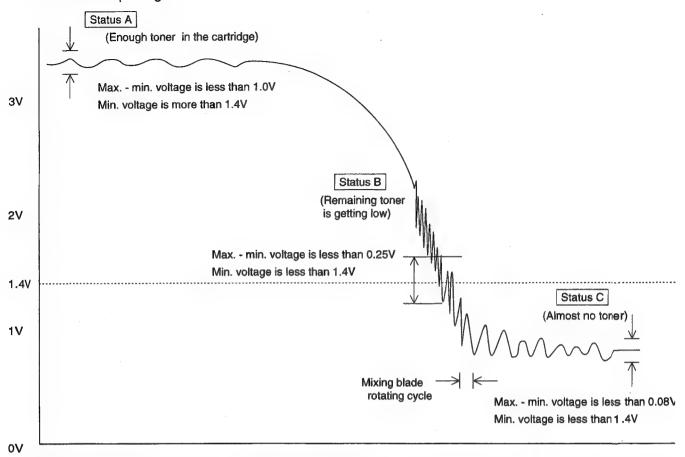




nHSYNC timing signal is less than 60% of nVIDEO signal.

Out of Toner Detection

Toner Sensor Output Signal



Toner Sensor output may change when the mixing blade passes above the Toner Sensor. Therefore the output signal has a max. voltage and min. voltage during mixing blade rotation cycle (6 sec).

E043

If the unit detects Status B 10 times during printing, the machine recognizes that the remaining toner is low and the display shows "REPLACE TONER CARTRIDGE".

E041

After detecting E043 and the LBP Print Available Counter Value reaches "0", the unit logs E041 (OUT OF TONER). **E45**

If the unit detects Status C when power is On, the unit logs E045 and displays "NO CARTRIDGE". The unit will recover when detecting Status A after a new toner cartridge is installed.

5.3.4 All Document Files

Print the document files from the Flash Memory. (This function will be available as a running change in the future)

Step	Operation or Unit Condition	LCD Display	
1	Standby	12-JAN-1999 15:00 00%	
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA	
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA	
4	Press "3".	PRINTOUT (1-7) 1:FUNC. PARAM. LIST	
5	Press "5" and "START".	* PRINTING * ALL DOCUMENT FILES	
6	After printing is completed, the unit returns to the display in step 3.	SERVICE MODE ENTER NO. OR VA	
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%	

5.3.5 Protocol Trace

Print a Protocol Trace Report for the previous communication.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "3".	PRINTOUT (1-7) 1:FUNC. PARAM. LIST
5	Press "6" and "START".	* PRINTING * PROTOCOL TRACE
6	After printing is completed, the unit returns to the display in step 3.	SERVICE MODE ENTER NO. OR VA
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%

·					* *	
**********	* PROTOCOL LOG	. REPORT ****	******	*** DATE 12-J	TAN-1999 *****	TIME 16:56 ******
	MODE	; OK : BCM-TX (ST : 9600bps OM : DIS OO CE B : TSI 28 20 2 39 38 3 DCS 00 C6 F	S/L 9 C4 80 12 0 20 38 37 : 6 36 35 34 :	2B 28 2B 2B 37 38 38 30		
	LOCAL	: MSP CSI	TSI		PIX PPS-EOS	
	REMOTE	: HCP			ASORIC.	~
	**********	PANAPAX	_*******	*****-123456	78901234567890	
						•

5.3.6 Toner Cartridge Order Form

The Toner Cartridge Order Form can be printed out manually by the following procedure.

Step Operation or Unit Condition		LCD Display	
1	Standby	12-JAN-1999 15:00 00%	
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR V A	
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR V A	
4	Press "3".	PRINTOUT (1-7) 1:FUNC. PARAM. LIST	
5	Press "7" and "START".	* PRINTING * TONER ORDER FORM	
6	After printing is completed, the unit returns to the display in step 3.	SERVICE MODE ENTER NO. OR V A	
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%	

	r facsimile machine is running low **** (1)
To order a replacement	Cartridge from your Authorized Dealer
P	Panafax Corp. (2)
-	201 111 5555 (3) 201 111 4444 (4)
Thank	you for your order.
	mer Name and Address
Ship to:	Bill to:
Attention:	Attention:
Phone No.:	
Customer ID: ABC COMPANY (5)	P.O. No.(if required):
Toner Cartridge: UG-3313 (6)	Serial No.:
	uantity Required:
Qu	
Qu	

Explanation of Contents

- Low Toner Message (Fixed)
 Dealer Name
 Toner Order Tel #
 Toner Order Fax #
 Customer ID
 Toner Cartridge No.

"The toner supply in your facsimile machine is running low"
Up to 25 digits
Up to 36 digits
Up to 16 characters (User Identification Code)

UG-3313

5.4 Service Mode 4 (Modem Test)

5.4.1 Binary Signal

This test mode is used to check the binary signal output. Signals can be output to the line using the following procedure.

Step Operation or Unit Condition		LCD Display	
1	Standby	12-JAN-1999 15:00 00%	
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA	
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA	
4	Press "4".	MODEM TEST (1-5) 1:SIGNAL TEST	
5	Press "START".	SIGNAL TEST IDLE (ENTER 1-9)	
6	Enter the signal number (1-9) to select the binary signal.	SIGNAL TEST 300bps	
7	Press "CLEAR" to end the signal generation. To select another signal, repeat step 6.	SIGNAL TEST IDLE (ENTER 1-9)	
8	Press "STOP" twice to return to standby.	12-JAN-1999 15:00 00%	

Binary Signal Table

Number	Signals
1	V21 300bps
2	V27ter 2400bps
3	V27ter 4800bps
4	V29 7200bps
5	V29 9600bps
6	V17 TC7200bps
7	V17 TC9600bps
8	V33 12000bps
9	V33 14400bps

5.4.2 Tonal Signal

This test mode is used to check the tonal signal output. Signals can be output to the line using the following procedure.

Step	Operation or Unit Condition	LCD Display	
1	Standby	12-JAN-1999 15:00 00%	
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA	
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA	
4	Press "4".	MODEM TEST (1-5) 1:SIGNAL TEST	
5	Press "2" and "START".	TONAL TEST IDLE (ENTER 1-7)	
6	Enter the signal number (1-7) to select the binary signal.	TONAL TEST 1080Hz	
7	Press "CLEAR" to end the signal generation. To select another signal, repeat step 6.	TONAL TEST IDLE (ENTER 1-7)	
8	Press "STOP" twice to return to standby.	12-JAN-1999 15:00 00%	

Tonal Signal Table

Number	Signals
1	462 Hz
2	1080 Hz
3	1100 Hz
. 4	1300 Hz
5	1650 Hz
6	1850 Hz
7	2100 Hz

5.4.3 DTMF Signal

This test mode is used to check the DTMF (Dual Tone Multi Frequency) signal output. The DTMF signal can be generated using the following procedure.

Step	Operation or Unit Condition	LCD Display
1	Standby	
		12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	
		SET MODE (1-6) ENTER NO. OR V A
3	Press "MONITOR" four times, then press "*".	
		SERVICE MODE ENTER NO. OR VA
4	Press "4".	
		MODEM TEST (1-5) 1:SIGNAL TEST
5	Press "3" and "START".	
3	Piess 3 and Stati .	DTMF TEST (1-2) 1.SINGLE
6a	Press "START" for DTMF Single Tone Generation.	
		SINGLE TONE ENTER (1-8)
7a	Enter the signal number (1-8) to select the DTMF signal.	
		SINGLE TONE 697Hz
6b	Press "2" and "START" for Dual Tone Generation.	
		DUAL TONE ENTER (0-#)
7b	Enter the signal number (0-#) to select the DTMF Dual tone.	
		DUAL TONE
8	Press "CLEAR" to end the signal generation. To select another signal,	
	repeat step 7a or 7b.	SINGLE TONE ENTER (1-8)
9	Press "STOP" twice to return to standby.	
		12-JAN-1999 15:00 00%

DTMF Single Tone Table

Number	DTMF Signal Tones
1	697 Hz
2	770 Hz
3	852 Hz
4	941 Hz
5	1209 Hz
6	1336 Hz
7	1477 Hz
8	1633 Hz

DTMF Dual Tone Table

Number	DTMF Dual Tones
0	941 Hz + 1336 Hz
1	697 Hz + 1209 Hz
2	697 Hz + 1336 Hz
3	697 Hz + 1477 Hz
4	770 Hz + 1209 Hz
5	770 Hz + 1336 Hz
6	770 Hz + 1477 Hz
7	852 Hz + 1209 Hz
8	852 Hz + 1336 Hz
9	852 Hz + 1477 Hz
*	941 Hz + 1209 Hz
#	941 Hz + 1477 Hz

5.4.4 Binary Signal (V.34)

This test mode is used to check the binary signal output. Signals can be output to the line using the following procedure. (V.34)

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "4".	MODEM TEST (1-5) 1:SIGNAL TEST
5	Press "5" and "START".	V.34 MODEM TEST ENTER NO
6	Enter the signal number (01-61) and press [SET] to select the binary signal.	V.34 MODEM TEST V34 2400sr 2400bps
7	Press "CLEAR" to end the signal generation. To select another signal, repeat step 6.	V.34 MODEM TEST ENTER NO
8	Press "STOP" twice to return to standby.	12-JAN-1999 15:00 00%

Binary Signal Table

Number	Signals			Number	Signals	
01	V34 2400 sr 2400 bps	22	V34 3000 sr 9600 bps	43	V34 3429 sr 4800 bps	
02	V34 2400 sr 4800 bps	23	V34 3000 sr 12000 bps	44	V34 3429 sr 7200 bps	
03	V34 2400 sr 7200 bps	24	V34 3000 sr 14400 bps	45	V34 3429 sr 9600 bps	
04	V34 2400 sr 9600 bps	25	V34 3000 sr 16800 bps	46	V34 3429 sr 12000 bps	
05	V34 2400 sr 12000 bps	26	V34 3000 sr 19200 bps	47	V34 3429 sr 14400 bps	
06	V34 2400 sr 14400 bps	27	V34 3000 sr 21600 bps	48	V34 3429 sr 16800 bps	
07	V34 2400 sr 16800 bps	28	V34 3000 sr 24000 bps	49	V34 3429 sr 19200 bps	
08	V34 2400 sr 19200 bps	29	V34 3000 sr 26400 bps	50	V34 3429 sr 21600 bps	
09	V34 2400 sr 21600 bps	30	V34 3000 sr 28800 bps	51	V34 3429 sr 24000 bps	
.10	V34 2800 sr 4800 bps	31	V34 3200 sr 4800 bps	52	V34 3429 sr 26400 bps	
11	V34 2800 sr 7200 bps	32	V34 3200 sr 7200 bps	53	V34 3429 sr 28800 bps	
12	V34 2800 sr 9600 bps	33	V34 3200 sr 9600 bps	54	V34 3429 sr 31200 bps	
13	V34 2800 sr 12000 bps	34	V34 3200 sr 12000 bps	55	V34 3429 sr 33600 bps	
14	V34 2800 sr 14400 bps	35	V34 3200 sr 14400 bps	56	ANSam	
15	V34 2800 sr 16800 bps	36	V34 3200 sr 16800 bps	57	CM	
16	V34 2800 sr 19200 bps	37	V34 3200 sr 19200 bps	58	JM	
17	V34 2800 sr 21600 bps	38	V34 3200 sr 21600 bps	59	INFO0c & TONEB	
18	V34 2800 sr 24000 bps	39	V34 3200 sr 24000 bps	60	INFO0c & TONEA	
19	V34 2800 sr 26400 bps	40	V34 3200 sr 26400 bps	61	PPh & AC & ALT	
20	V34 3000 sr 4800 bps	41	V34 3200 sr 28800 bps			
21	V34 3000 sr 7200 bps	42	V34 3200 sr 31200 bps			

5.5 Service Mode 5 (Diagnostic)

5.5.1 **CCD Test**

This test is used to check the CCD.
Use the following procedure to initiate the test.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3.	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "5".	DIAGNOSTIC (1-3) 1:CCD TEST
5	Press "START". The scanner will be active.	1:CCD TEST * CHECK NOW *
6	Press "STOP".	SERVICE MODE ENTER NO. OR VA
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%

5.5.2 LCD / LED Test

This test is used to check the LCD and LEDs. Use the following procedure to initiate the test.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "5".	DIAGNOSTIC (1-3) 1:CCD TEST
5	Press "2" and "START". 1) LCDs display as shown at right. 2) All LEDs will light.	2:LCD/LED TEST * CHECK NOW *
6	Press "STOP".	SERVICE MODE ENTER NO. OR VA
7	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%

5.6 Service Mode 6 (RAM Initialization)

Initializes RAM and restores the Function Parameters to their default values.

Note:

This operation should be performed when the unit is first installed.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR V A
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "6".	* RAM INITIALIZE * ENTER NO. OR V A
5	Press "∨" or "∧" to select the initialization mode. (See Note)	* RAM INITIALIZE * LOGO/ID/PSWD CLEAR
6	Press "START".	LOGO/ID/PSWD CLEAR * COMPLETED *
7	Return to step 3 and press "STOP" to return to standby.	12-JAN-1999 15:00 00%

RAM Initialization Table

No.	Initialize Mode	Description		
99	SHIPMENT SET (A)	Deletes all setting information, except parameter number 80 and 81, then set default values.		
98	SHIPMENT SET (B)	Deletes all setting information, except parameter number 61, 80 and 81, then set default values.		
97	FLASH MEMORY CLEAR	Deletes all information in the Flash Memory.		
16	LBP ERROR LOG CLEAR	Clears the Printer Error Log.		
15	LOGO/ID/PSWD CLEAR	Clears the Logo, ID, Polling Password.		
14	ALL JOB CLEAR	Clears all Jobs stored in Flash Memory.		
13	PROGRAM DIAL CLEAR	Clears the Program keys.		
12	ABBR. DIAL CLEAR	Clears the One-touch and ABBR. Numbers.		
11	JOURNAL CLEAR	Clears the Journal contents.		
*	PARAMETER INITIALIZE	Restores the Fax and Function Parameters to default values.		

5.7 Service Mode 7 (LBP Service Mode)

This test mode is used to change printer parameters and verify printer information. Use the following procedure to change printer parameter.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "7".	LP SERVICE MODE (1-2) 1:LBP PARAMETER SET
5	Press "START" for printer parameter settings. Press "2" and "START" to get the printer information. Ex: Enter "START" for printer parameter settings.	LBP PARAMETER SET 1.PRINTER COUNTER
6	Press "3" and "START". Then enter the number of pages. Ex: Enter "50" and "START".	LBP PARAMETER SET 3.OUT OF TONER
7	Repeat step 5 through 6 to request operation, or press "STOP" to return to standby.	12-JAN-1999 15:00 00%

Sub	Code Parameter Name		Description	
1	1	Printer Counter	Displays and resets the printer and cassette(s) counters.	
	2	LBP Fuser Reset	Clears the LBP fuser error.	
	3	Out of Toner	Sets the number of pages to print after low toner is detected.	
2	VA	LBP ROM Version	Shows the LBP ROM Version.	
	VA	LBP Print Available	Shows the remaining number of allowable printable pages after low toner has been detected (Counter Only).	
	V/ LBP MEMORY CAPACITY		Shows the page memory capacity.	

5.8 Service Mode 8 (Check & Call)

5.8.1 Overview

This feature enables the Authorized Servicing Dealers to manage and improve the Fax machine maintenance to their customers by alerting them of equipment problems. It also can be used as a Supply Sales Tool by alerting the Dealer that the unit is running Low on Toner. The function overview is as follows:

- 1. The machine's printer error information is stored in the Printer Report.
- 2. The printer report can be manually printed when required.
- When printer errors occurs, the unit can automatically transmit the Service Alert Report to the pre-registered telephone number.
- 4. When the unit detects Low Toner, it can automatically transmit the Maintenance Alert Report to the pre-registered telephone number.
- 5. When the unit detects Low Toner, it can automatically print out the Toner Order Form with pre-registered order information.

5.8.2 Printer Reports

- Conditions under which a report can be printed or transmitted
 - 1. Manual print
 - The Printer Report can be printed by Service Mode 3. (See page 161)
 - 2. Automatic transmission/printout
 - 3. Service Alert Report

When the unit detects an Emergency Printer Error, the unit will immediately transmit the Service Alert Report to the pre-registered telephone number. However, the unit will not transmit the Service Alert Report if it finds the same error within the same date in the error log.

4. Maintenance Alert Report

When the unit detects Low Toner, the unit can automatically transmit the Maintenance Alert Report to the pre-registered telephone number. Refer to the Printer Error Code Table.

5. Toner Order Form

When the unit detects Low Toner, the unit can automatically print the Toner Order Form with the pre-registered order information.

Note:

The Service and Maintenance Alert Reports are managed in the same manner as the normal memory transmission (Retry, Incomplete, File List, Display while it is transmitting, Journal).

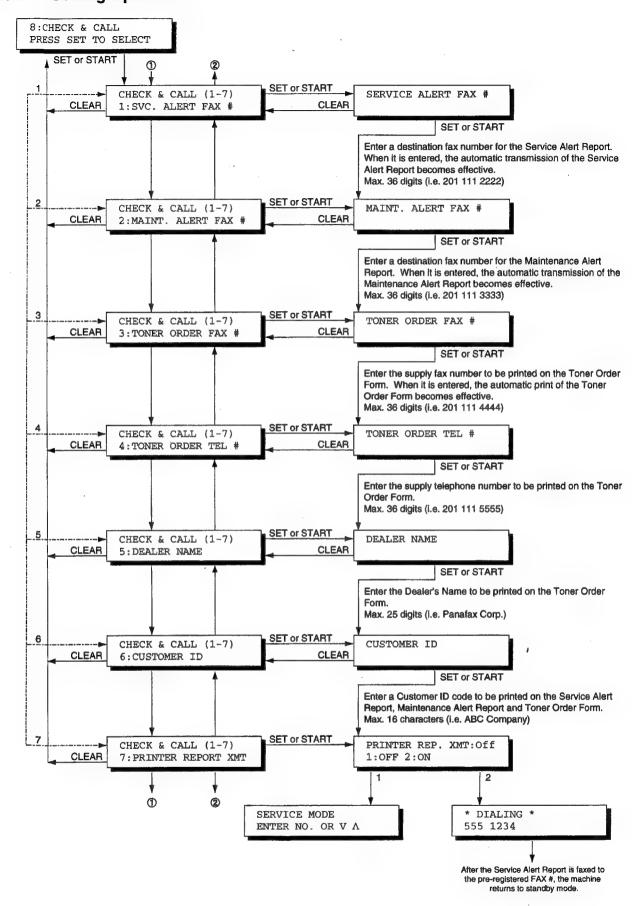
• Printer Error Code Table

Into. Code	Printer Error Code	LED/LCD	Log	Tx Report	Condition	Content of Error
001- 003	11-13	JAM	0	-	R/C	Paper Jam 1st, 2nd or 3rd Cassette.
007	14-19	JAM	0		R/C	Paper Exit Error.
010	00	NO PAPER			R/C	No Paper in 1st, 2nd or 3rd Cassette, or wrong Guide Setting.
011	64,65	NO PAPER			S	No 1st, 2nd or 3rd Cassette, or No Paper in 1st, 2nd or 3rd Cassette.
021	22-26,41		0	0	R/C	Fuser Problem / Fan Problem / LP Thermisbr disconnected Problem.
041	62	TONER	0		S/R/C	No Toner
043	00	TONER	0	х	S/R/C	Low Toner Warning
045	61	TONER	0		S	No Toner Cartridge
051	00		0	0	S/R/C	Printer Error
054	31,32,36		0	0	R/C	LSU Problem
055	51- 55,58,00		0	0	S/R/C	No response from LP Controller
060				1		Rx Door Open
870		MEMORY OVERFLOW			T/R	Memory Overflow detected

Note:

- 1. Transmission Report: o = Service Alert Teport, x = Maintenance Alert Report
- 2. Condition: R = Receive Mode, C = Copy Mode, S = Standby Mode, T = Transmit Mode

5.8.3 Setting Operation



Note

1. Service Alert Report

To enable the automatic transmission of Service Alert Report, enter the destination fax telephone number in the "SERVICE ALERT FAX #" field. When a printer error occurs, the Service Alert Report is transmitted to the designated number automatically. A blank entry in this field, disables the Automatic transmission of the Service Alert Report.

2. Maintenance Alert Report

To enable the automatic transmission of Maintenance Alert Report, enter the destination fax telephone number in the "MAIN ALERT FAX #" field. When a printer error occurs, the Maintenance Alert Report is transmitted to the designated number automatically. A blank entry in this field, disables the Automatic transmission of the Maintenance Alert Report.

3. Toner Order Form

To enable the automatic printout of the Toner Order Form, enter the destination fax telephone numbers in the "Toner Order FAX #" field. When a low toner error occurs, the Toner Order Form is printed automatically. A blank entry in this field, disables the automatic printout of the Toner Order Form.

4. SERVICE ALERT FAX #, this would be the fax telephone number for the Dealer's Service Department. MAINT. ALERT FAX #, this could be the fax telephone number for the Dealer's Supply Sales Desk. TONER ORDER FAX #, this could be the fax telephone number for the Dealer's Supply Sales Desk. TONER ORDER TEL #, this could be the voice telephone number for the Dealer's Supply Sales Desk. DEALER NAME, this name is printed on the Toner Order Form.

CUSTOMER ID, to identify your customer, enter up to 16 characters user code in this field. This name will be printed on the Service Alert Report, Maintenance Alert Report and Toner Order Form.

5.8.4 SERVICE ALERT REPORT FORMAT

```
************************ DATE 12-JAN-1999 ***** TIME 12:14 *******
                   > SERVICE ALERT REPORT <
                     (1)
                                     (2) (3)
LAST PRINT ERROR: 06-01-99 12:10 No.999-00
                 : ABC COMPANY (4)
CUSTOMER ID
FAX ROM VERSION : UF-895 ALV02100AU (5)
LBP ROM VERSION : 130003 (6)
TRANSMIT COUNTER: 999999 (7)
RECEIVE COUNTER : 999999
COPY COUNTER
                 : 999999
PRINT COUNTER
                : 999999
                 : 10-01-99 12:10 No.999-00
PRINT ERROR
                   09-01-99 10:15 No.999-00
                    08-01-99 13:48 No.999-00
                 : 15-12-98 17:10 No.999-00
                 : 14-12-98 12:10 No.999-00
: 05-12-98 08:10 No.999-00
                                            -LOGO PANASONIC
      *************** -CHARACTER ID - ***** -31415926535897932384-*****
```

Explanation of Contents

(1) Date & Time when a problem occurred

(2) Information Code

(3) Printer Error Code

(4) Customer ID

(5) Fax ROM Version

(6) LBP ROM Version

(7) Transmission / Reception / Copy / Print Counters

(8) Print Error

Refer to Service Manual Up to 16 characters (User Identification Code)

Last 30 records (Latest on top)

5.8.5 MAINTENANCE ALERT REPORT FORMAT

Explanation of Contents

(1) Low Toner Message (Fixed)

(4) Customer ID

(5) Fax ROM Version

(6) LBP ROM Version

(7) Transmission / Reception / Copy / Print Counters

"MACHINE IS RUNNING OUT TONER"
Up to 16 characters (User IdentificationCode)

5.9 Service Mode 9 (System Maintenance)

5.9.1 Overview

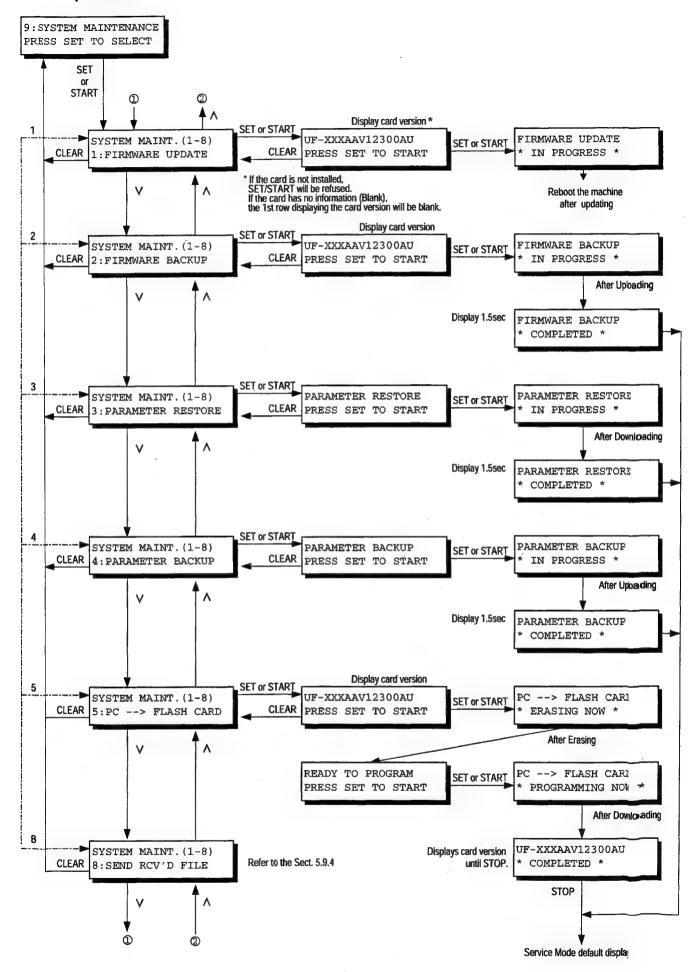
This Service Mode is used to maintain and/or update the firmware of the machine. Use the following procedure for System Maintenance.

Step	Operation or Unit Condition	LCD Display
1	Standby	12-JAN-1999 15:00 00%
2	Press "FUNCTION" and then "7".	SET MODE (1-6) ENTER NO. OR VA
3	Press "MONITOR" four times, then press "*".	SERVICE MODE ENTER NO. OR VA
4	Press "9".	SYSTEM MAINT. (1-8) 1:FIRMWARE UPDATE
5	Press "START" to update the firmware. Enter No. or press "\" or "\" to select the maintenance to be performed. Ex: Enter "2".	SYSTEM MAINT. (1-8) 2:FIRMWARE BACKUP
6	Press "START" and "SET".	FIRMWARE BACKUP * IN PROGRESS *
7	After the backup is completed, repeat step 5 through 6 to request an operation.	SERVICE MODE ENTER NO. OR VA
8	Press "STOP" to return to standby.	12-JAN-1999 15:00 00%

System Maintenance Table

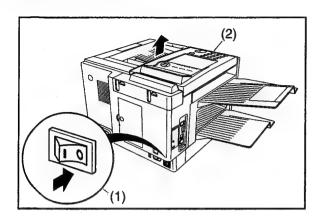
No.	Maintenance Mode	Description	
1	FIRMWARE UPDATE	Updates the firmware in the machine with the Master Firmware Card.	
2	FIRMWARE BACKUP	Creates a Backup Card of the machine's firmware. (A 2 MB or higher Flash Memory Card is required)	
3	PARAMETER RESTORE	Restores the parameters from the Backup Card into the machine.	
4	PARAMETER BACKUP	Creates a Backup Card of the machine's parameters. (A 1 MB or higher Flash Memory Card is required)	
5	PC → FLASH CARD	Creates a Master Firmware Card using the Firmware Update Kit. (A 2 MB or higher Flash Memory Card is required)	
8	SEND RECEIVED FILE	Transfers documents from memory to another fax machine during a fatal printer error.	

5.9.2 Operation

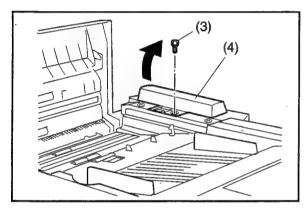


5.9.3 Recovering From Firmware Update Failure

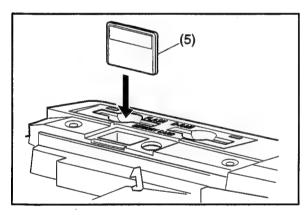
If the Firmware Update is interrupted before completion, the machine will not be able to progress into the Standby Mode and the LCD display will remain Blank. If this happens, please follow the steps described below to recover from a failed firmware update.



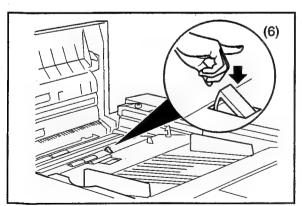
- (1) Turn the Power Switch "OFF".
- (2) Open the Control Panel Unit.



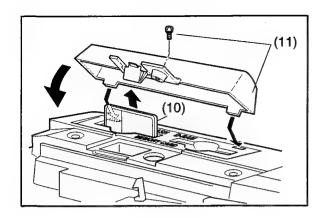
- (3) 1 Screw (B1).
- (4) Remove the Memory Card Cover (115).



(5) Insert the **Flash Memory Card** with the Firmware Code programmed into the card.



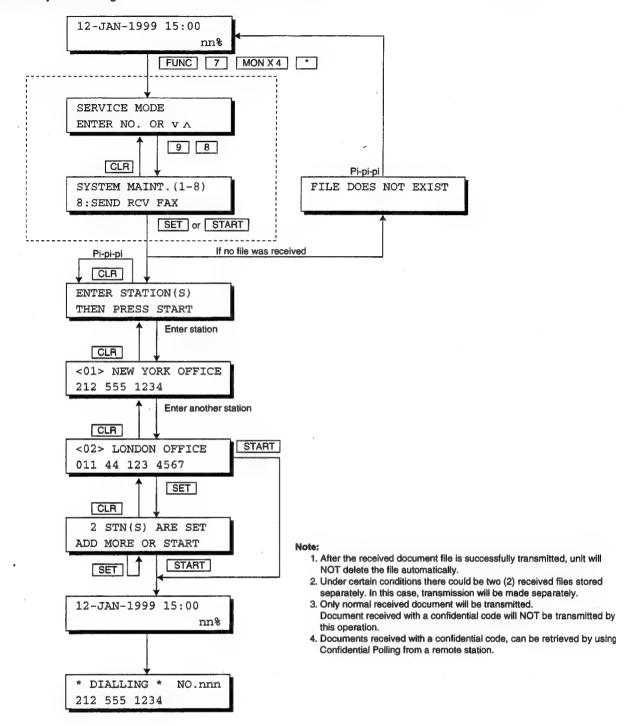
- (6) Activate the **Read Point Sensor** with your finger and turn the **Power Switch** "ON".
- (7) Wait approximately 10 seconds, release the **Read Point** Sensor and close the **Control Panel Unit** (ADF).
- (8) Allow the unit to complete the Firmware Update (approx. 1-minute). When completed, the unit will reboot and progress to the Standby Mode.



- (9) Turn the Power Switch "OFF".
- (10) Remove the Flash Memory Card.
- (11) Re-install the Memory Card Cover.
- (12) 1 Screw (B1).
- (13) Close the Control Panel Unit.
- (14) Turn the Power Switch "ON".
- (15) Perform Parameter Initialization.

5.9.4 Send Received File

This function is the relief mode which makes it possible to retrieve memory received documents during a fatal printer error by transferring the documents to another fax machine.



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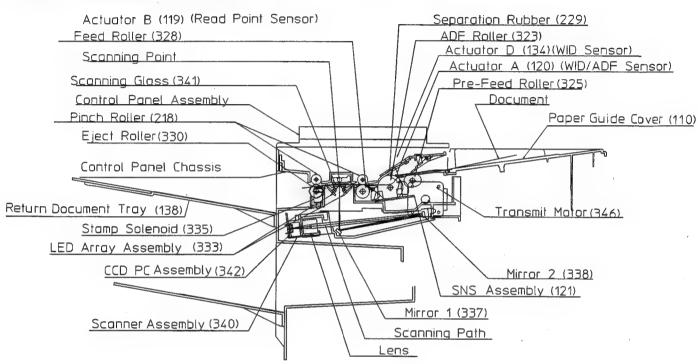
Recei

Cover

Contro

6.1.1

193



ADF Mechanism

The ADF (Automatic Document Feeder) automatically feeds paper into the unit, and consists of the Pre-Feed Roller, ADF Roller and Separation Rubber. Each document is placed face-down on the Paper Guide Cover before being fed into the unit.

- The Pre-Feed Roller (325) moves the bottom document to the ADF Roller.
- The ADF Roller (323) feeds individual pages into the scanning area.
- The Separation Rubber (229) separates documents placed on the Paper Guide Cover, preventing multiple feeding.

LED Array Assembly

The UF-895 has two LED Arrays (UF-885 has one LED Array), used as a light source to illuminate the document. The LED Array(s) turns ON when the Read Point Sensor is activated by the document leading edge.

Transmit Guide Unit

The Transmit Guide Unit is an auxiliary part used for feeding and ejecting documents. It consists of the Control Panel Chassis (216), Transmitter Chassis (301), Feed Roller (328), Eject Roller (330), and Pinch Roller (218). This unit also provides the white scanning area and serves as a base for electronic white reference.

Transmit Mechanism Drive System

This system feeds documents through the transmitting mechanism, and consists of rollers, gears and a stepper motor,

- The **Transmit Motor** (346), a stepper motor, controlled by the CPU, drives the Pre-Feed Roller, ADF Roller, Feed Roller and Eject Roller, with the speed based on the density of the picture information.
- The Feed Roller (328) feeds the document to the scanning point.
- The Eject Roller (330) feeds and ejects the document out of the machine.

Transmit Mechanism Sensors [SNS PCB (121)]

The SNS Assembly (121) performs two functions. The ADF Sensor (PC3), activated by Actuator A (120), detects the presence of documents on the ADF Tray and multiple pages. The WID (A4/B4 size document width) Sensor (PC1), activated by Actuator D (134), detects documents that are wider than 9.1 inches (232 mm). The size of the reproduced copy is reduced when the receiver is capable of printing only letter and A4 size. The size remains the same when the receiver is capable of printing B4 size copies. Width reduction is also in effect in the copy mode.

The RP (Read Point) Sensor (PC2), activated by Actuator B (119), detects the lead and trail edges of the document, controlling the reading position. The CPU determines that a document is jammed if Actuator B is not tripped within a specified time after the ADF Roller starts feeding, and disengages the Pre-Feed and ADF Rollers by reversing the Transmit Motor direction.

The ADF Door Sensor (PC1), activated by Actuator C (118), halts all scanning operations when the Control Panel Unit is open.

Verification Stamp Unit

The Verification Stamp Unit stamps an "X" mark on the front of the document after the document is successfully transmitted or stored. It consists of the Stamp Holder (334) and Stamp Solenoid (335).

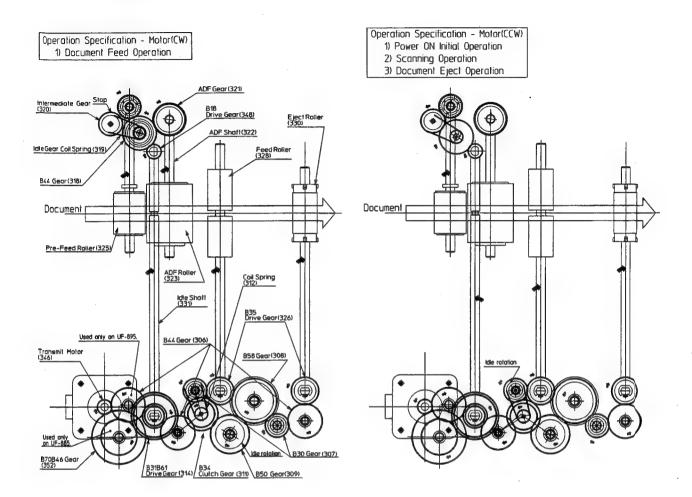
Scanner Assembly (340)

The Scanner Assembly consists of two mirrors, a Lens, and a CCD PC Board Assembly (342).

- The mirrors, Mirror 1 (337) and Mirror 2 (338) reflect image information, in the form of light, through the Lens.
- The Lens focuses the image information and passes it to the CCD.
- The CCD, mounted on the CCD PC Board, converts the image information into an electronic signal.

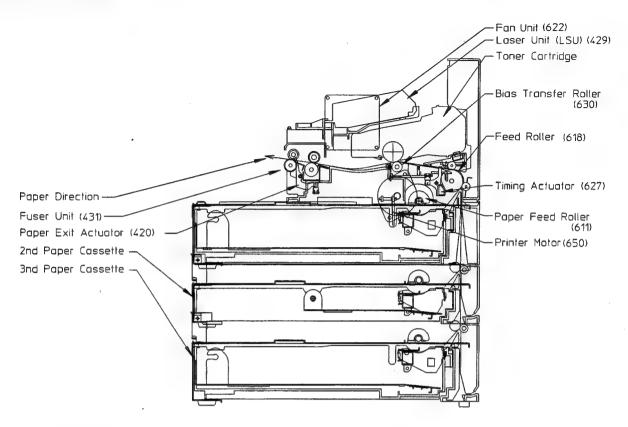
Drive System

The Drive System uses a Planetary Gear System to provide drive to the Pre-Feed Roller and ADF Roller. A planetary gear system does not have a fixed position; it shifts its position according to the rotational torque of the gear, together with the rotation of the planet gear. When the Read Point Sensor is activated, and the document is scanned, the Pre-Feed Roller and the ADF Roller drive are disengaged. The Drive System is shown below.



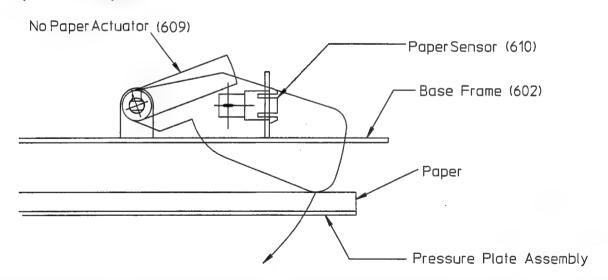
6.1.2 Receive Mechanism

The Receive Mechanism consists of the Laser Unit (LSU), OPC (Organic Photo Conductor) Drum, and various other parts which ensure the normal feeding of recording paper. These components and their functions are as follows:



Paper Feed Units No.1 and 2
Paper Feeder Unit No.2 is optional.

Cassette Paper Detection operation



The NP Actuators attached to the Paper Feed Blocks No.1 and 2 determine if there is paper in the cassette. The paper in the cassette lifts up the NP Actuator, allowing the light from the LED to actuate the phototransistor. The output signal level (nPCHK1 or nPCHK2) is shown in the table below.

	Paper in cassette	No paper
Paper Feed Block No.1	L	Н
Paper Feed Block No.2	L	Н

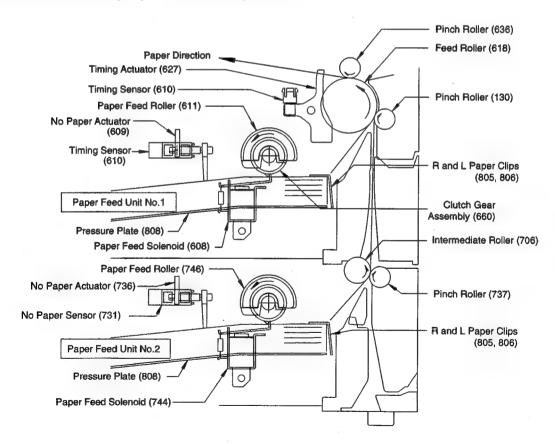
Paper Feed Unit No. 1 Operation

- 1. The printing operation begins when the nPRT (Print Request) output signal level goes Low. The Printer Motor (650) is initialized.
- 2. The Paper Feed Solenoid (608) is energized for a specified period of time and turned ON. This activates the Paper Feed Roller (746), which rotates one revolution. The paper is separated into individual sheets by the Paper Separation Arm and transported to the Feed Roller (618).
- 3. After one revolution the Paper Feed Roller stops, releasing the paper. The Feed Roller transports the paper to the drum area.
- 4. The actual printing process starts at a specified time after the Timing Actuator (627) is activated and stops at a specified period of time after the trailing edge clears the Timing Actuator.

Paper Feed Unit No. 2 (Optional) Operation

The First Paper Feed Unit always takes priority. The Second Paper Feed Unit becomes operational only when the first cassette runs out of paper and the NP Sensor is deactivated, causing the nPCHK1 output signal level to go High. (See Note)

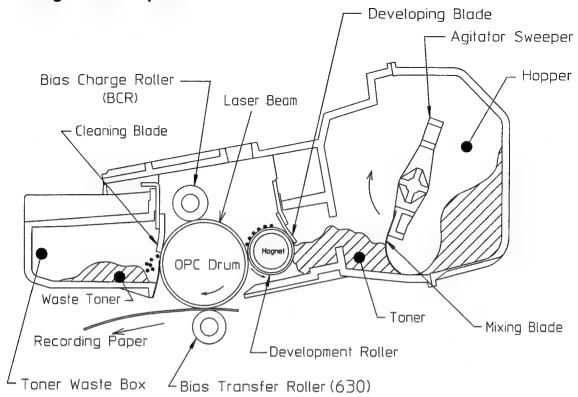
- 1. The printing operation begins when the nPRT (Print Request) output signal level goes Low. The Printer Motor (650) is initialized.
- 2. The Paper Feed Solenoid (744) is energized for a specified period of time and turned ON. This activates the Paper Feed Roller (746), which rotates one revolution. The paper is separated into individual sheets by the Paper Separation Arm and transported to the Intermediate Roller (706).
- 3. After one revolution the Paper Feed Roller stops, releasing the paper. The Intermediate Roller and the Feed Roller (618) transports the paper to the drum area.
- 4. The actual printing process starts at a specified time after the Timing Actuator (627) is activated and stops at a a specified period of time after the trailing edge clears the Timing Actuator.



Note

The printing priority is always from the 500 sheet Feeder Unit (upper cassette).

6.1.3 Printing Process Operation



Charge

In the dark, the Bias Charge Roller (BCR) applies a high, uniform negative charge to the surface of the OPC Drum. The surface potential is approximately -650 VDC and remains because the drum has a high electric resistance in the dark.

Exposure

A portion of the laser beam is deflected to the timing sensor [Beam Detection (BD) Sensor], which controls the start timing of scanning on the OPC Drum. The CPU also uses the timing sensor to detect abnormal signals. The light beam from the laser diode is modulated by the digital signal (nVIDEO) and converted to parallel light waves by the collimator lens. The beam is then directed to the rotating polygon mirror, where it is reflected to the f-0 lens and then focused onto the OPC Drum surface. The laser beam moves across the surface of the OPC Drum in the scanning direction. Where the laser beam is applied, the negative charge on the drum dissipates, and where the laser is not applied, the negative charge remains. This action forms a latent, electrostatic image on the OPC Drum, corresponding to the original image.

Development

This development process uses a conventional method, where toner coats a Development Roller and transfers to the latent image on the OPC Drum. In the Toner Cartridge, the (mono-component) toner is negatively charged by the friction between the rotating Development Roller (Mag Roller) and the Developing Blade. This combination and the rotation of the Mixing Blade transfers the toner from the reservoir and forms a brush effect on the Mag roller. Where the magnetic brush lightly touches the OPC Drum, the negatively charged toner is attracted to the latent image on the drum, forming a mirror image of the original on the drum. Any remaining toner is removed from the Mag Roller by the Developing Blade and is recycled back into the toner reservoir. A bias voltage of approximately 1.7 kVACp-p at 1.7 kHz, riding on a -500 VDC bias is applied to the magnetic brush to achieve maximum print quality.

Transfer and Separation

As the paper is fed between the OPC Drum and the Bias Transfer Roller (BTR) (630), a positive charge of approximately +600 VDC (+3 µA steady current) is applied to the backside of the paper by the BTR. The toner particles are attracted away from the drum towards the surface of the paper. During cleaning, the BTR is charged to approximately -800 VDC to repel toner on the OPC Drum and prevent toner from being attracted to the BTR. After transfer has occurred, the paper passes over the Discharge Plate (617) in the Plate Discharge Guide (616), reducing the difference of potential between the OPC Drum and the paper. The stiffness of the paper causes the paper to separate from the drum.

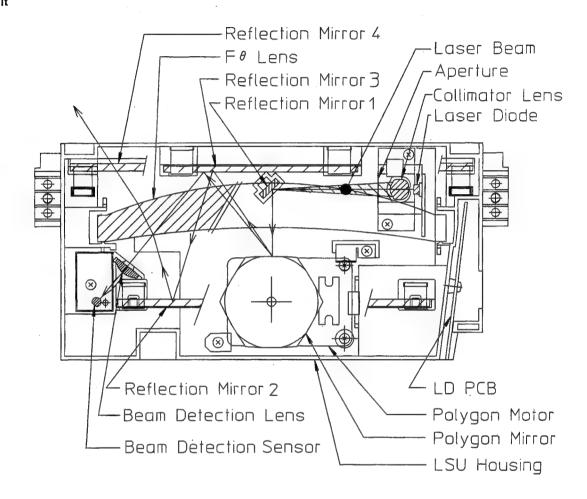
Cleaning

After transfer, some toner may remain on the surface of the OPC Drum. A Cleaning Blade scrapes the OPC Drum surface, and the removed toner is moved into the Toner Waste Box, inside the Toner Cartridge.

Fusing

After separation, the paper passes through the Fuser Rollers and is subjected to heat and pressure in the Fuser Unit (431). Pressure between the Fuser Roller (414) [heated internally by the Fuser Lamp (408) to approximately 190°C (±10°C) (or 374°F)] and Pressure Roller (409) fuses or bonds the toner into the paper.

Laser Unit



Laser

A 5 mW Laser Diode, with a wave length of 780 nm (±20 nm), provides a modulated beam controlled by nVIDEO. The beam power on the drum surface is approximately 0.23 mW, and is controlled by the monitor circuit.

Collimator Lens

This lens converges and focuses the laser beam, converting it to parallel light.

Aperture

This controls the size of the laser beam.

Polygon Mirror and Motor

The polygon scanner consists of a 6-sided mirror, directly driven by a Polygon motor, revolving at 10,000 rpm. The laser beam is reflected against these mirrors and swept over the recorded width in the scanning direction. This unit features a stable line scanning speed, a precision mirror reflection angle, a reflection free surface, and instant start.

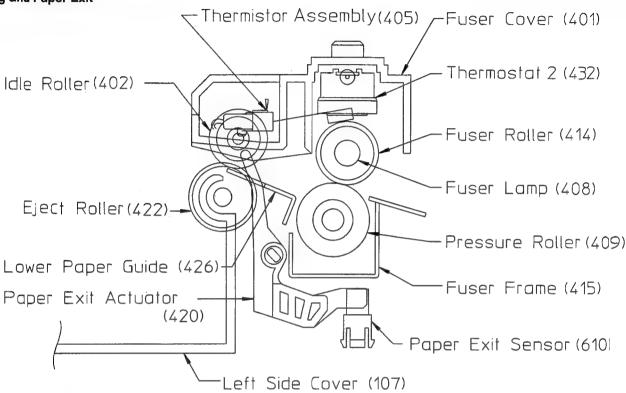
Beam Detection (BD) Lens and Beam Detection (BD) Sensor

The BD Lens receives the reflected light from the Polygon Mirror and redirects it into the BD Sensor, which converts the laser beam into electrical signals and sets the start timing for the scanning line.

f-θ lens

This amorphous plastic, molded lens is designed to provide parallel laser light across the surface of the drum, providing a constant scanning speed.

Fusing and Paper Exit



Fuser Unit (431)

The Fuser Unit, consisting of the Fuser Lamp, Fuser Roller, Pressure Roller, Thermistor, and Thermostat, bonds the toner into the paper using heat and pressure.

Fuser Lamp (408)

Located in the Fuser Roller is a Halogen lamp that serves as the heat source for the Fuser Roller.

Fuser Roller (414)

A Teflon coated roller supplies the heat for bonding the toner to the paper. The temperature of the surface is kept constant at approximately 190°C (±10°C) (or 374°F).

Pressure Roller (409)

This converted PFA tube Silicon Rubber Roller applies pressure to the Fuser Roller, assisting in bonding the toner to the paper.

Thermistor Assembly (405)

The Thermistor, a heat sensitive resistor, in contact with the Fuser Roller, monitors the surface temperature. The temperature detected is used to control the ON/OFF switching of the Fuser Lamp. It also acts as the primary overheat prevention (evice. A comparator circuit on the FCB PC Board acts as a secondary overheat protection and becomes active at approximately 200°C (392°F).

Thermostat 2 (432)

A Thermostatic Fuse, part of the power line for the Fuser Lamp, provides an extra overheat protection by opening when the Fuser Roller surface temperature reaches 230°C (446°F) and remains there for 1 minute. If the primary and secondary overheat protection does not halt the rise in temperature, the thermostat opens, removing power from the Fuser Lamp. When the Thermostat opens, it must be replaced.

Paper Exit Sensor (610)

This sensor detects the presence of printed paper at the exit. If no paper passes, or if paper is over the sensor too long, a "RECORDING PAPER JAM" message is displayed. When paper passes over the sensor, the output is Low (Low Active).

Thermal Fuse (433)

It is placed in series with the Thermostat on the power line of the Fuser Lamp and performs the tertiary overheating prevention (in case the Thermostat fails) by opening when the surrounding temperature reaches approximately 216°C (420.8°F).

Drive Assembly and Toner Cartridge

The **Drive Assembly**, consisting of the Printer Motor (650) and the drive mechanisms, is activated by coupling and gear arrangements. The **Toner Sensor** (639), a magnetic sensor, detects the remaining quantity of toner in the Toner Cartridge. When the "TONER" lamp starts to blink, there is still enough toner left in the cartridge to print 100 pages (based on ITU-T Image No.1). When toner has run out the display will show: "OUT OF TONER & INFO CODE 041" and the machine is disabled from printing any copies. The **Toner Cartridge** consists of OPC Drum, Bias Charge Roller, Development Roller, Developing Blade, Cleaning Blade, Mixing Blades and Toner Waste Box. The **OPC Drum** is an aluminum cylinder coated with an OPC (Organic Photo Conductor) sensitive material. This surface is photoelectric (retains the charge in the dark and releases the charge in the light). The potential differences on the surface (a static latent image) form a printed image. The **Bias Charge Roller** provides a uniform charge on the OPC Drum surface. The **Development Roller** supplies toner to the drum by rotating over the magnet. The **Developing Blade** evens the toner on the Development Roller surface and also charges the toner by friction. The **Cleaning Blade** cleans by scraping the remaining toner off the OPC Drum surface after transfer.

6.1.4 Covers and Enclosures

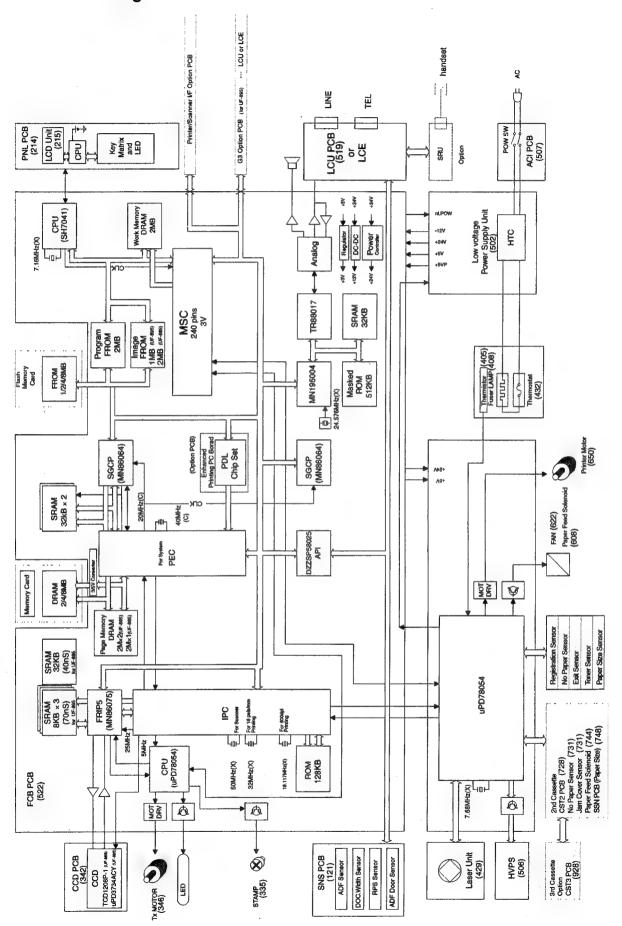
The Paper Guide Cover (110) contains Paper Guides (111), (112), which adjust to the paper width to properly feed the original documents. The **Front Cover** (105) has a Speaker (133) mounted inside. The **Rear Cover** (108) shields the circuit boards. The Printer Cover (122) contains the Document Sub Tray (124), used to support legal size documents. The Left Side Cover (107) shields the Fuser Unit.

6.1.5 Control Panel

The Control Panel consists of the Panel PC Boards (214) and LCD Unit (215), which displays the various status messages, and a membrane-type panel.

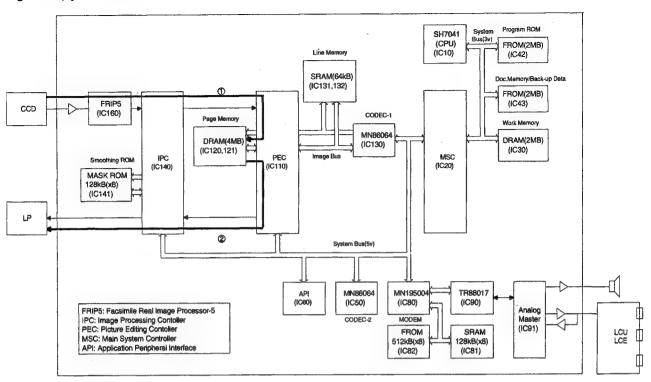
6.2 Electrical Circuit Explanation

6.2.1 Fax Block Diagram

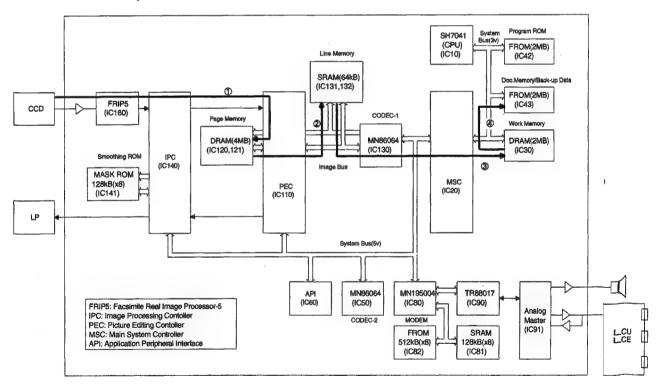


6.2.2 Signal Routing

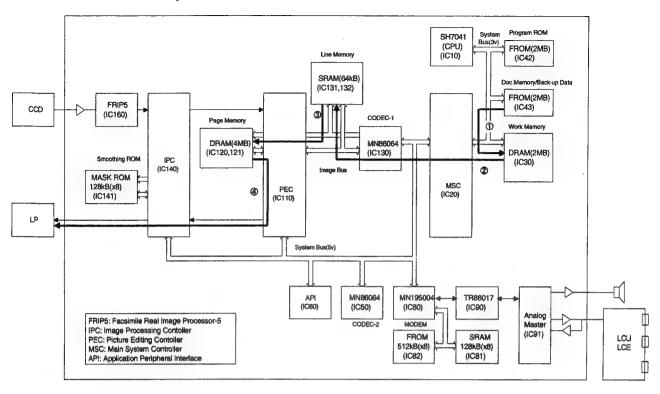
Single Copy



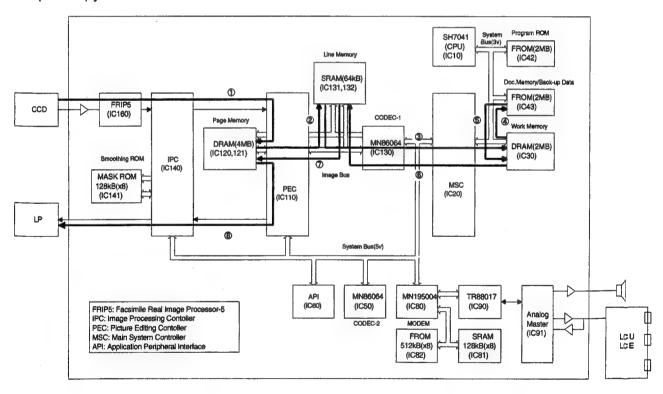
Scan into Memory



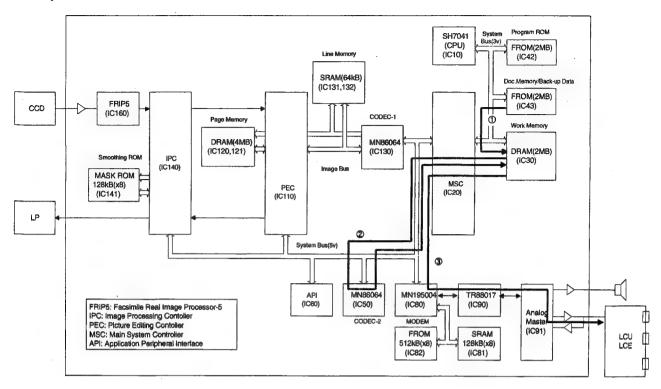
File Print From Memory



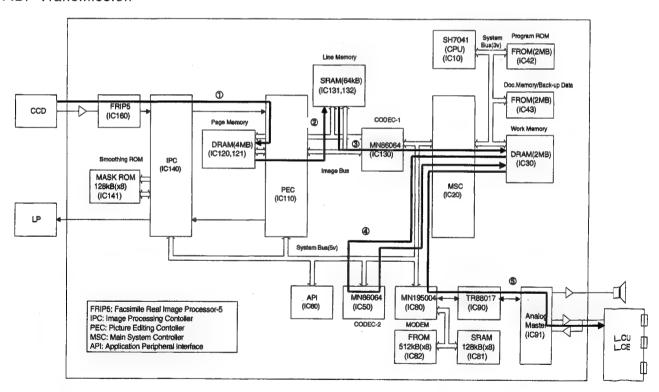
Multiple Copy



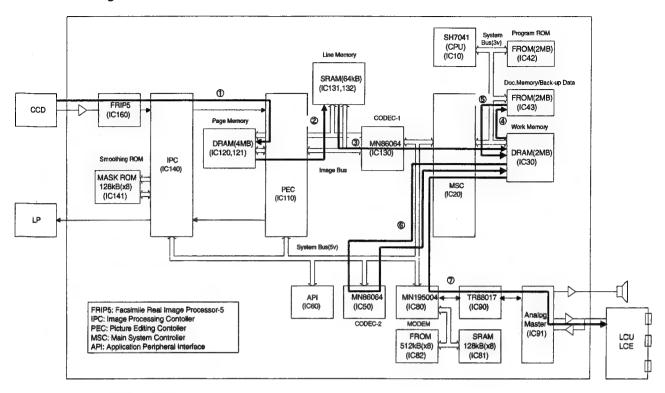
Memory Transmission



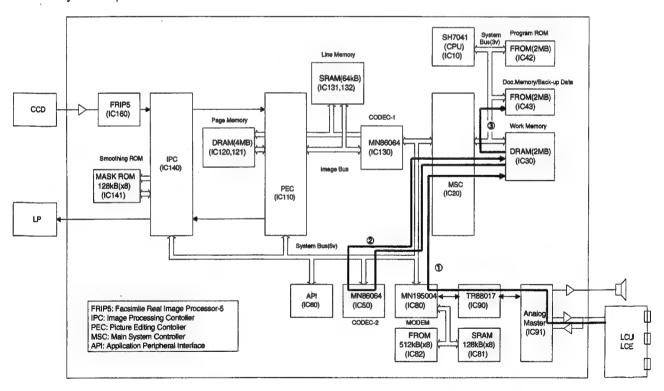
ADF Transmission



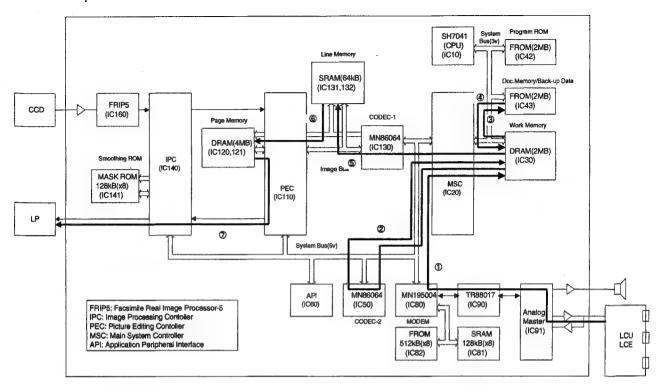
Quick-Scanning Transmission



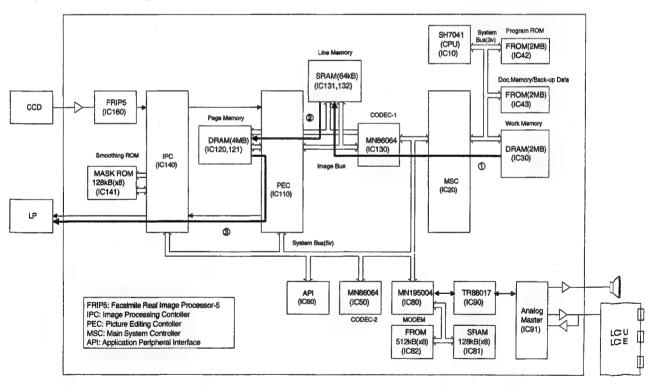
Memory Reception



Direct Reception

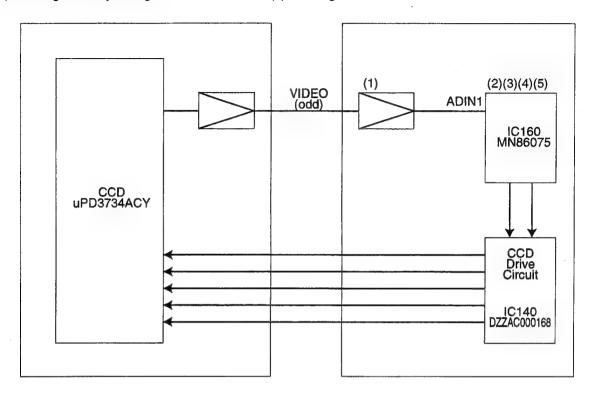


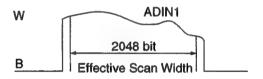
Report/List Printing



6.2.3 Picture Signal Scanning Block

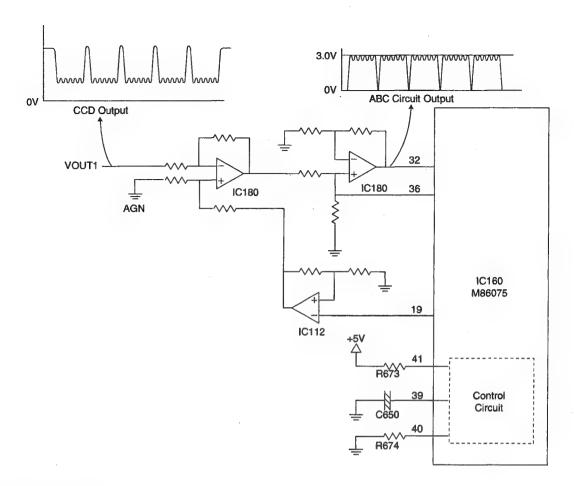
The image data read by the optical unit is input to the CCD mounted on the CCD PC Board, then transferred to the FCB PC Board after the optical information is converted into an electrical signal by the CCD. The following shows a block diagram of the picture signal scanning circuit. This picture signal scanning circuit consists of (1) ABC circuit, (2) shading correction circuit, (3) offset control circuit, (4) picture signal binary coding correction circuit and (5) reducing circuit.





ABC Circuit

This circuit consists of IC180, IC160, C650, R673 and R674. Its function is to prevent deterioration of picture quality due to dirt on the document or degrading of the luminous energy of the LED light source. The picture signal from the CCD is amplified in IC180 and input to IC160, where it is converted from analog to digital and the shading is corrected. When the signal exceeds +3.0V as the result of this amplification and correction, capacitor C650 is charged through R673. This charging voltage lowers the level of the picture signal input to IC180. When the picture signal voltage rises, this charge voltage becomes higher. When the picture signal level lowers due to the background color, etc., of a transmitting document, the voltage of the charged capacitor C650 is discharged through R674. Consequently, the output of the ABC circuit is kept constant to maintain the picture quality, regardless of changes in the CCD output level.



Shading Correction Circuit

The Shading Correction Circuit, included in IC160, is provided to correct for reduction in LED lamp intensity around the optical lens and LED lamp intensity distortion due to shading of each bit. This circuit scans the reference white on the transmitting document plate immediately before the document reaches the scanning position and writes a compensation value according to the distortion of the waveform, at the time, into the S-RAM (IC170, IC171, IC172). When the actual picture signal is input, the circuit corrects the picture signal shading, according to this compensation value. This shading is carried out for each page during transmission or copy.

Offset Control Circuit

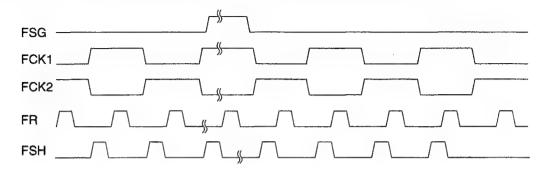
The Offset Control Circuit consists of IC161, IC160 and IC118, and controls the black level of the CCD output to be at 0V by using the IC118.

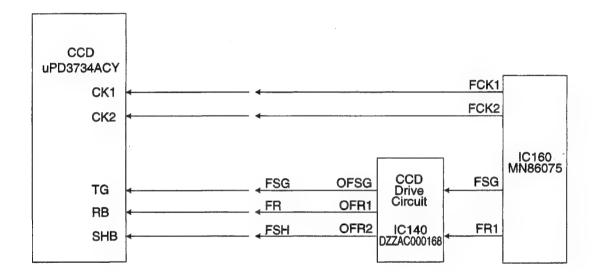
Picture Signal Binary Coding Correction Circuit

The Picture Signal Binary Coding Correction Circuit is included in IC160. It is used to obtain a binary coding signal which is a corrected picture and error diffused signal of a false halftone signal, which is detected from a shaded picture signal.

6.2.4 CCD Drive Clock Generator Circuit

This circuit is also contained in IC9. Its function is to generate FSG, FCK1 and FR clock signals, which are required for driving the CCD. These clock signals are generated by the system clock generator circuit derived from the 25.0 MHz clock signal that is input to IC160. Its timing chart is shown below. The FSG, FCK1, FCK2, FR and FSH clock supplied to the CCD is output from the OFSG, OFCK1, OFCK2, FR and FSH of IC40 (DZZAC000108). These clocks of IC40 are derived from the FSG, FCK1, and FR clock of IC160 (MN86075) generates the timing of the FSG, FCK1, FCK2, FR and FSH clock to drive the CCD.





6.2.5 Picture Quality Control Circuit

This circuit consists of a recording picture control standard cell IC140 (DZZAC000168 or "1PC"), an interpolation table ROM (IC141) and its peripheral circuitry. The recording picture control standard cell (IC140) inputs the serial data from the IC110 (DZZAC000167 or "PEC"), conducts picture quality correction (smoothing), reduction, synchronization control, etc., then sends this data to the printer. These functions are as follows:

Picture quality correction circuit (smoothing)

Compares the picture element with 15 surrounding picture elements, determines the interpolation data from the interpolation data ROM, and smooths out diagonal lines, etc., on the recorded picture.

Image range isolation circuit

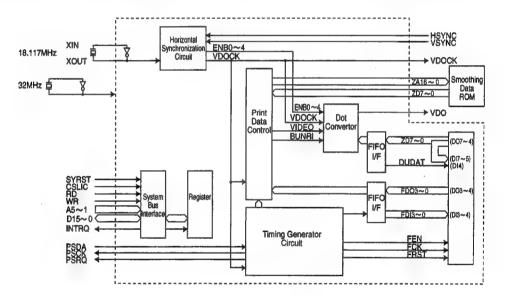
Identifies the halftone picture range and controls smoothing to eliminate blotching of the recording picture which has undergone error diffusion or other processing.

Reduction circuit

This circuit is used to process the received data so that It fits on the recording paper, according to the Fax Parameter settings.

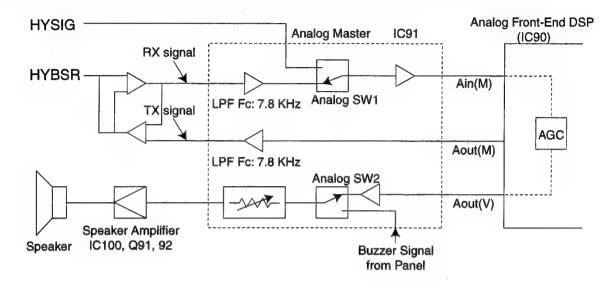
Synchronization control circuit

This circuit is used to synchronize the output recorded data with the horizontal synchronizing output signal from the printer for each line. Within a line, it is synchronized with the dot clock signal. The dot clock signal is provided by dividing the crystal oscillator frequency from the Extend Generator Circuit (32 MHz: 16 x 15.4, 18.117MHz: 600dpi) by 5.



6.2.6 Line Monitor Circuit

The Line Monitor Circuit consists of an operational amplifier (IC100), analog master (IC91) and its peripheral circuits. Its function is to monitor the dial tone, DTMF tone, response signals, etc. over the speaker. It also sounds the output of the key touch tones, alarm tones, etc. from the panel CPU over the speaker. The received signal from the Ain (M) passes through an AGC circuit and is conditioned by the Analog Front-End DSP (IC90) and is then input to the Analog SW2 for volume control. The signal is then input to the Speaker Amplifier (IC100, Q91, 92), where it is amplified to a level sufficient to drive the speaker. The key touch tones and Buzzer Signals from the panel are input to the Analog SW2 for volume control and then input to the Speaker Amplifier. The monitor tone from the phone line and the buzzer tone from the panel can be adjusted from the Control Panel.

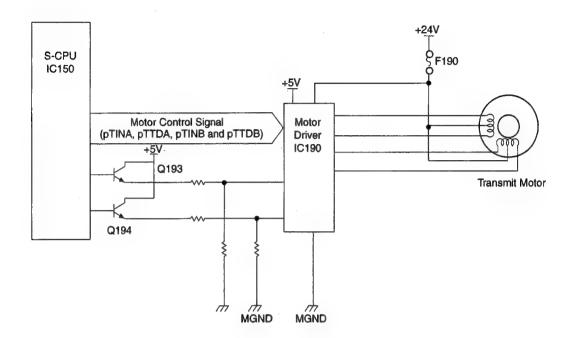


6.2.7 Transmit Motor Control Circuit

The transmit motor is a stepper motor powered by +24 VDC and driven by a 1/2-phase excitation, greater step division is provided by controlling the phase circuit in steps.

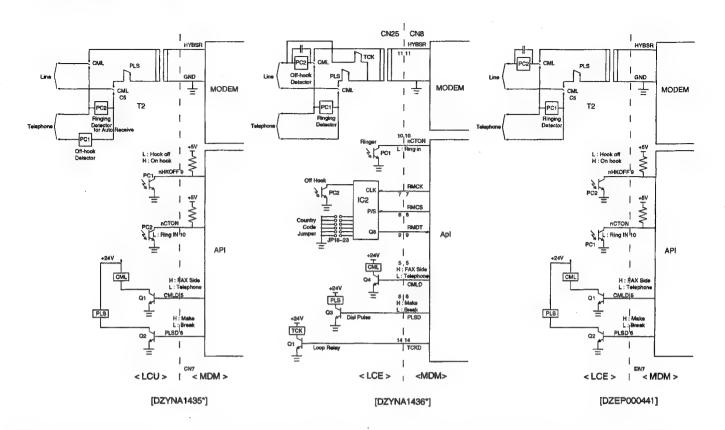
The stepping signal and chopping current control signals (pTINA, pTTDA, pTINB and pTTDB) are sent to the chopper drive circuit, comprised of IC190 and its peripheral circuitry, from the IC150 (S-CPU) output port.

Tx Motor Driver Circuit Block Diagram



6.2.8 Line Control Board

The following shows a block diagram of the Line Control Board.

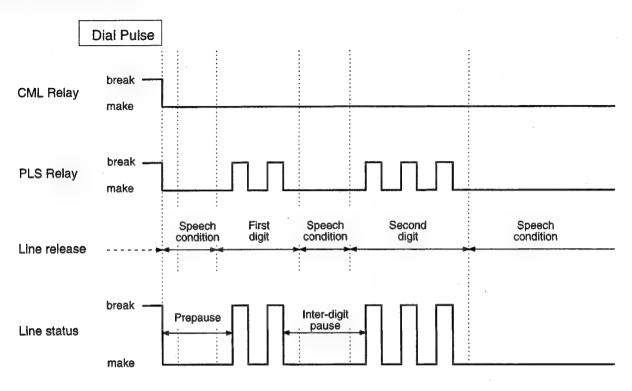


The **Ring Detector** consists of a photocoupler, PC2 (PC1 for LCE), and its peripheral circuits. The ringing signal is half-wave rectifier in the Ring Detector, and transferred through the nCTON signal line to the IC80 on the FCB PC Board. The IC80 observes the signal to distinguish from signals caused by chattering.

The **Off-Hook Detector (External Telephone)** circuit consists of the photocoupler, PC1 (PC2 for LCE), and its peripheral circuits. When PC1 detects loop current flow, it emits a Low active output signal (nHKOF) to the IC80 which monitors it for a specified time. If the IC80 detects no change in the Low signal level, it determines that the External Telephone is Off-Hook.

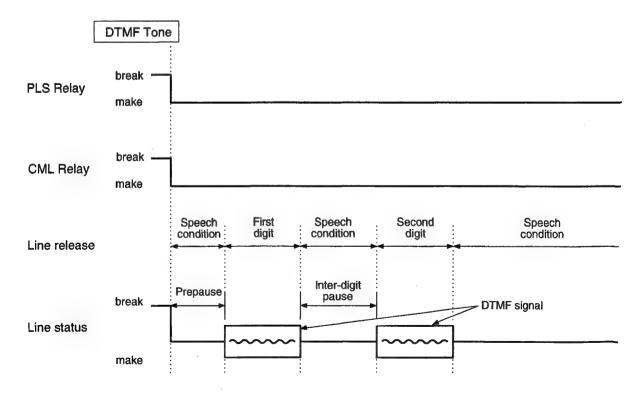
Dial Pulse Generator

The circuit consists of the CML relay, PLS relay and their peripheral circuits. This circuit generates dial pulses. The CPU on the FCB PC Board controls all dial pulse generation sequences. It turns relay CML and PLS ON and OFF through the DZZSP58025 (IC80). The status of the relays during dialing is shown below. When the absence of the terminating message is confirmed by the Off-Hook detector, the CPU turns CML relay ON to develop loop status (DC loop). After a few seconds, the CPU turns the PLS relay On and Off to generate dial pulses, making and breaking the loop.



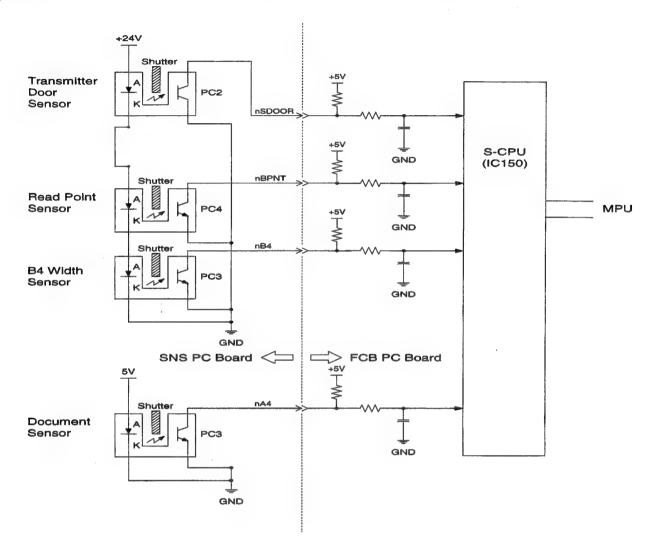
DTMF Tone Generator

The circuit is incorporated in the MODEM on the FCB PC Board. The DTMF tone is conveyed to the telephone line using the same route as the facsimile signal. The DTMF tone selection is controlled by the CPU. The relay status during dialing is shown below.



6.2.9 SNS PC Board

Each sensor consists of an LED and phototransistor. When documents are placed on the ADF tray or are moving, a shutter in the document sensor closes. The light path from the LED is blocked turning the phototransistor "OFF", and the output voltage from the sensor becomes a "High" level. With no document on the ADF tray, the shutter opens the light path, and output from the sensor is kept at a "Low" level. Operation of the RP Sensor is opposite to the ADF Sensor. When the leading edge of the document reaches the RP Sensor, the shutter opens and the output voltage becomes a "Low" level. Then, the shutter closes and the output becomes a "High" level when the lagging edge of the document clears the RP Sensor. The Tx Door Sensor operation is the same as the ADF Sensor, the output from the sensor is kept at a "Low" level when the door is closed and becomes a "High" level when the Tx Door is opened.



6.2.10 Control Panel

The Control Panel consists of the Display PCB and Panel Unit, which display various status information. It is normally interfaced to the main CPU. Keyed input signals are received by the Panel CPU and the data is transferred to the main CPU on the FCB PC Board.

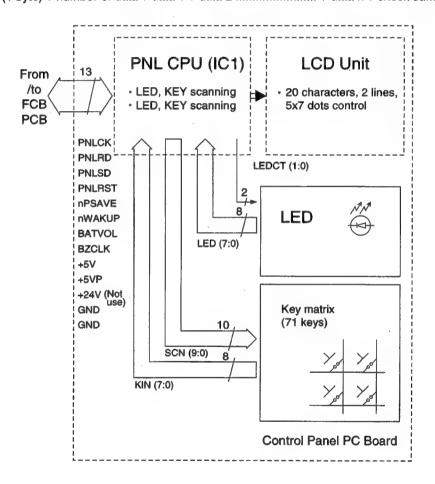
The Control Panel performs the following processes simultaneously:

- Key inputting
- · LED, LCD display
- · Data transmission / reception

Interface to main CPU

The interfacing between the main CPU and the panel CPU are all executed with commands and responses in the following two formats:

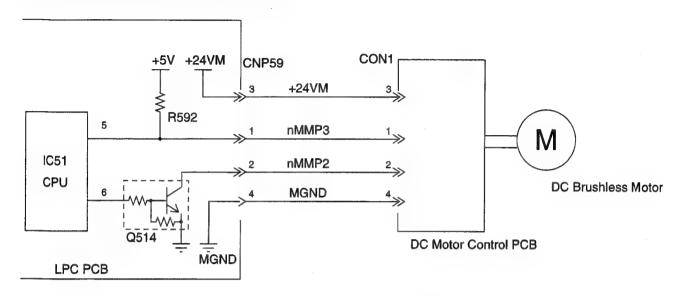
- Command / response (1 byte) + number of data + check sum
- Command / response (1 byte) + number of data + data 1 + data 2 + data n + check sum.



6.2.11 Printer Motor Drive Circuit

Motor Drive Circuit

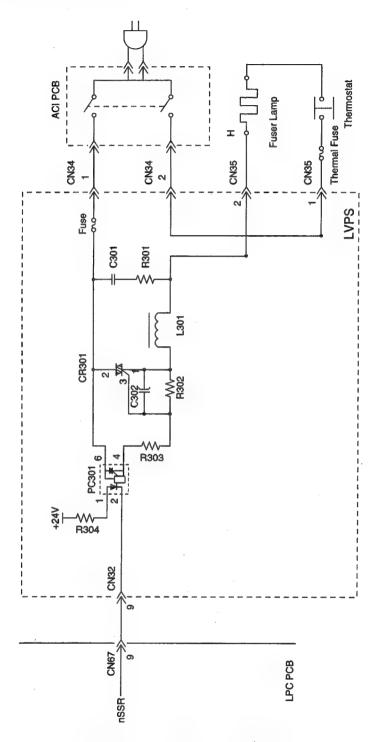
The Printer Motor is a Brushless DC Motor. When the nMMP2 signal level goes Low, the Printer Motor starts rotating. When the Printer Motor reaches a constant speed, the monitor feed back signal, nMMP3 goes Low and is fed back to the CPU which controls the printing process. The Printer Motor is powered by a +24 VDC supply. When the interlocks are open, the +24 VDC supply is cut off and the Printer Motor stops rotating.



Laser Printer Motor Drive Circuit Block Diagram

Fuser Lamp Drive Circuit

The Fuser Lamp is powered by 115 VAC. It is driven by the LVPS and controlled the FCB PC Board. When the CN32, Pin 9 (nSSR) on the LVPS goes LOW, the Fuser Lamp turns ON. This lights up the PC301 LED and activates the CR301 photo-triac, and 115 VAC is sent to the Fuser Lamp. The time at which CR301 is actually activated depends on the 115 VAC sine wave. When the cross-voltage for Pin 6 and Pin 4 of PC301 is other than 0 Volts (sine wave exceeds 0 volts), PC301 inhibits the activation of the triac and turns ON the Fuser Lamp.

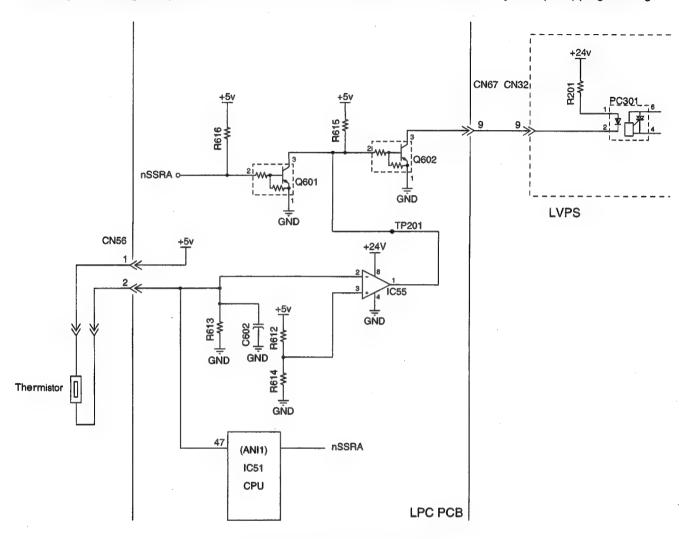


Fuser Lamp Drive Circuit Diagram

Fuser Temperature Control Circuit

The fuser temperature is controlled by IC51 on the LPC PC Board, which contains A/D (Analog/Digital) converters ANI0 and ANI7. The Fuser Temperature Control Circuit uses A/D converter, ANI1. When the PC301 drive current is transmitted from the LPC PC Board to the LVPS, the Fuser Lamp turns ON. IC55 is a converter with open output at pins 1 and 7 and is used as an abnormal temperature detection circuit. IC55, pin 1, has a high impedance when Q602 is activated, turning ON the Fuser Lamp. An abnormal temperature is detected when the VTH voltage level becomes higher than V+, forcing IC55, pin 1 Low and deactivating Q602.

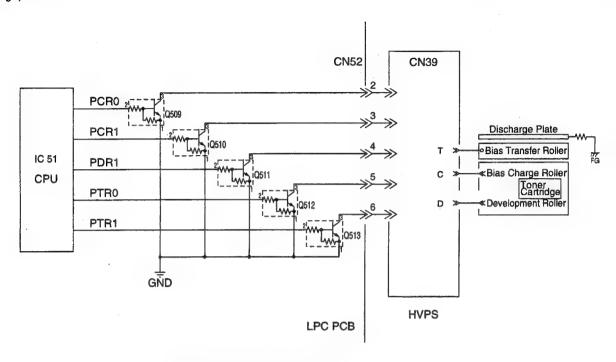
Abnormally low and high temperatures, as well as Thermistor release status, are detected by IC51 (CPU) programming.



Fuser Temperature Control Circuit Diagram

High Voltage Drive Circuit (Charging, Development and Transfer)

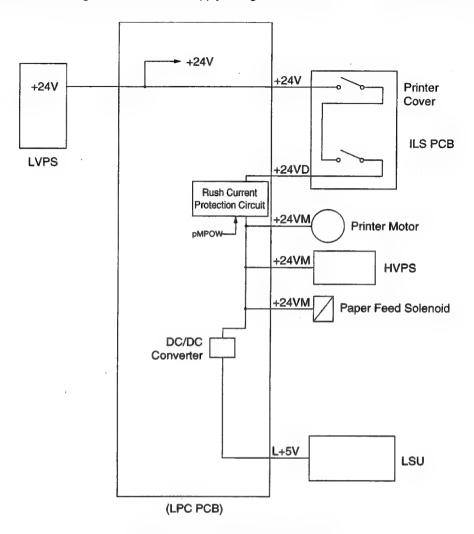
High Voltage is provided through a DC to DC converter, which changes the +24 VDC supply voltage to -650 VDC, and output approximately 0.72 KVAC (Steady current: 450 μ A) for the Charging Block. The Developer Circuit converts the +24 VDC to between -500 VDC for the development bias, and outputs 1,700 VAC(p-p) at a frequency of 1.7 kHz to charge the toner. The Transfer Circuit changes the +24 VDC supply voltage to approximately +600 VDC (steady current: 3.0 μ A/-800 VDC steady voltage).



High Voltage Drive Circuit

6.2.12 Interlock Safety Circuit

This safety circuit turns OFF the +24 VDC supply voltages when the Printer Cover is opened. When the Printer Cover is opened, the microswitch(es) on the ILS PC Board are de-actuated, turning OFF +24 VDC to the Printer Drive Circuit, the HVPS, and the Paper Feed Solenoid Circuits, turning OFF the +5 VDC supply voltage for the Laser Driver Circuit on the Laser Unit.



Interlock Safety Circuit Block Diagram

6.2.13 LSU Control Circuit

The laser control signals are described below.

nLDON

The LSU is activated when this output signal is LOW. If an error occurs, the nLDON output signal level goes High and the LSU is deactivated.

nVIDEO

This is the actual Data Signal. The Laser is ON when the nVIDEO output signal level is LOW.

nHSYNC

This horizontal synchronization signal transmitted from the Beam Detection Sensor sets the horizontal position of the laser beam as it crosses the OPC Drum.

nPMON

This is the Polygon Motor Control Signal. The Polygon Motor rotates when the nPMON output signal level is LOW.

nPMRDY

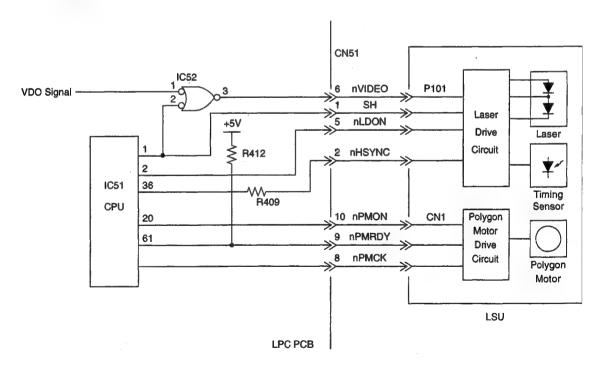
A Phased-Lock Loop (PLL) circuit keeps the Polygon Motor speed constant at 10,000 rpm when the nPMRDY is at a Low output signal level.

nPMCK

This is the Polygon Motor Rotate Clock.

SH

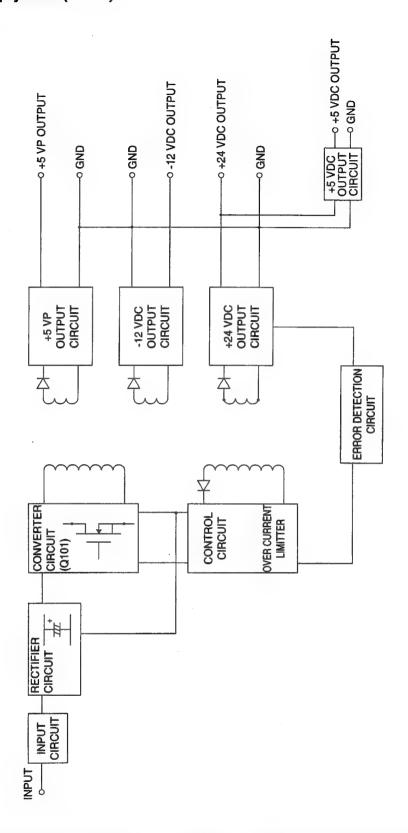
Laser Power Sample/Hold Timing Signal.



Laser Unit Control Circuit Block Diagram

6.2.14 Power Supply Unit (LVPS)

Block Diagram



Note:

+5 VP is the Pilot Power Supply, which provides power to the active components during the Sleep Mode.

ETXDN218A7D (100V), ETXDN218E7D (200V)

Input Filter Circuit

AC line voltage travels to the rectifying circuit through the line filter. The line filter eliminates RFI noise which may otherwise pass to the AC line from the power supply unit. It also protects the power supply unit from transient noise which may pass into the unit from the AC line.

Rectifying and Smoothing Circuit

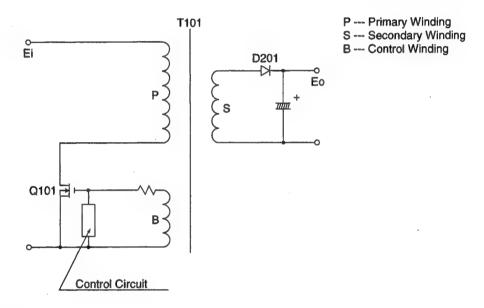
As soon as power is applied to the Power Supply Unit, AC line voltage is rectified by C105 and is smoothed by capacitor C107. The protection circuit at the time of start-up is controlled by an IC (IC101) and resistors R103 and R110.

Inrush Current Protection Circuit

When the capacitor C105 is not charged by the AC input, an inrush current, or current surge, appears at the input side. Power thermistor TH101 limits the inrush current.

Converter Circuit

A hybrid IC (IC101), in combination with transformer T1, form a switching power supply circuit using the RCC (Ringing Choke Converter) system.



Main Switching Circuit

In the above circuit, when the main switching transistor, Q101, is turned On, input voltage, Ei, is supplied to the primary winding of transformer T101. However, no current will flow through diode D201 of the secondary side, due to reverse polarity of the secondary winding causing no current flow within T1. But the transformer charges with energy. When Q101 is turned Off, the supply voltage to the primary winding shuts off and the windings of T101 change polarity, allowing D201 to conduct, releasing the energy accumulated in T101 to the circuit. When the energy is discharged through D201, Q101 turns on, once again reversing the polarity on T101 windings, creating a self-oscillation circuit.

The value of output voltage is

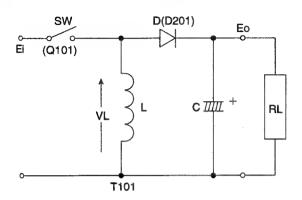
Eo=d/(1-d)*Ei

d=Ton/Ts

Ton: On time of Q101

Ts: Period of oscillation

Equivalent circuit model for the RCC.



In the equivalent circuit; When SW is on, current flows

SW → L

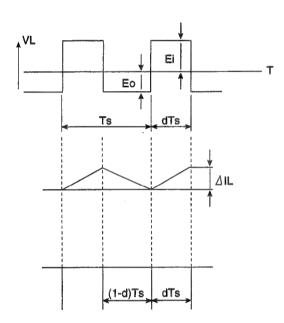
When SW is off, current flows

 $L \rightarrow D \rightarrow RL$

The value of inductance increase current between on period. (d*Ts)

The value of inductance decrease current between off period. ((1-d)*Ts) (2) From equation (1) and (2),

Eo=d/(1-d)*Ei



In the actual circuit, the fixed output voltages are obtained by changing the winding ratio of transformer T101. In this converter circuit, the output voltages are stabilized by controlling the duty cycle of the ON and OFF timing of the transistor. In this power supply, the bias winding is built into the transformer. The power supply has four outputs, +24 VDC, -12 VDC, +5 VP and +5 VDC. The +24 VDC output is protected by the Error Detection Circuit, and the +5 VP and -12 VDC outputs are protected by the circuitry inside of the voltage regulator IC, +5 VDC is protected by ZD251.

Control Circuit and Error Detection Circuit

The control circuit amplifies the output of the duty cycle according to the error voltage detected by the Error Detection Circuit, and drives the main transistor Q101. The method used to change the duty cycle is to change the ON time period. When the output voltage of the +24 VDC circuit rises, the current of photocoupler PC101 increases, the output pulse width of the control circuit decreases and the ON time period of Q101 decreases. This control circuit decides the minimum OFF time period by itself. When the oscillation frequency becomes higher and the OFF time period becomes minimum, the OFF time period remains unchanged and only the ON time period decreases. This way, there is a upper limit of the oscillation frequency and the duty cycle is expanded.

Over Current Limiter

The +24 VDC output is limited by Ton MAX Limiter (ON time period of transistor Q101) which is part of the control circuit. The +5 VP, ~12 VDC and +5 VDC outputs have over current limiters provided inside the voltage regulator and IC251.

7 Exploded View & Parts List

7.1 Country Codes

Country Code	Country	Country Code	Country
AA	Austria	AT	Turkey
AB	UK	AU	USA, Puerto Rico
AC	Canada	AV	France
AD	Denmark	AV	Algeria
AE	Taiwan	AW	New Zealand
AF	Finland	EE	Italy
AG	Germany	YA	Panama, Peru, Chile, Argentine
AH	Netherlands	YC	Universal 200V Version
AJ	Spain	YG	Greece
AK	Hong Kong	YJ	Czech, Slovak
AL	Australia	YL	Brazil
AM	Switzerland	YM	Malaysia
AN	Norway	YT	Thailand
AP	Portugal	YV	China
AP	Brazil	YW	South Africa
AQ	Ireland	YX	Singapore
AR	Belgium	YY	Mexico, Panama
AS	Sweden		

Note:

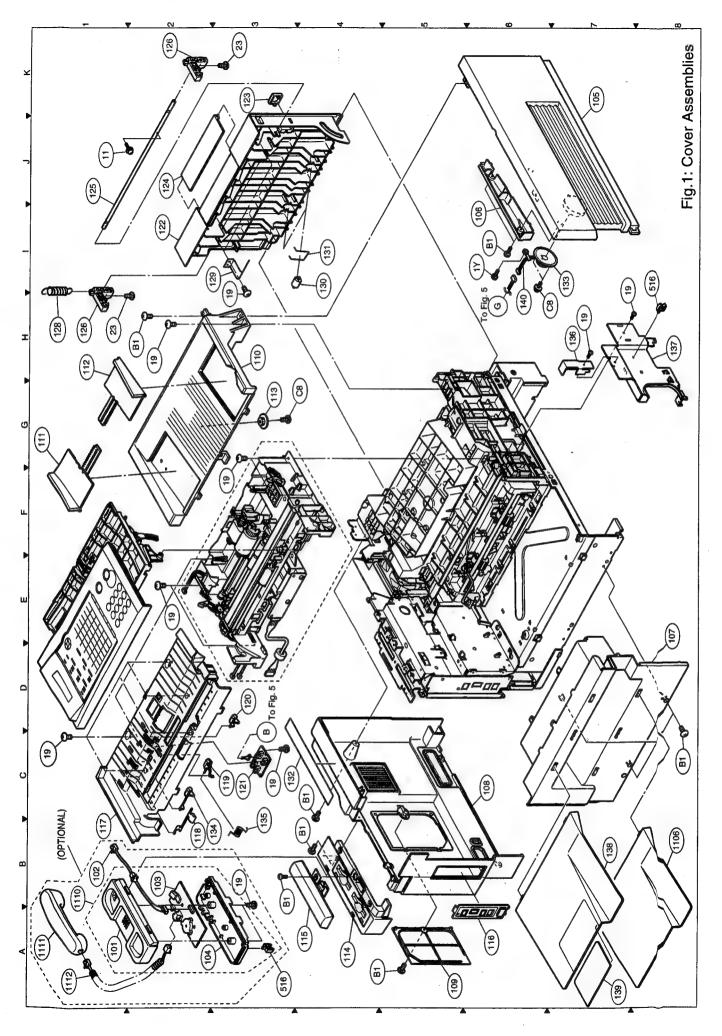
- 1. This parts list is provisional issue for each countries. Please contact local Panasonic company to get correct part number.
- 2. Important safety notice

Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

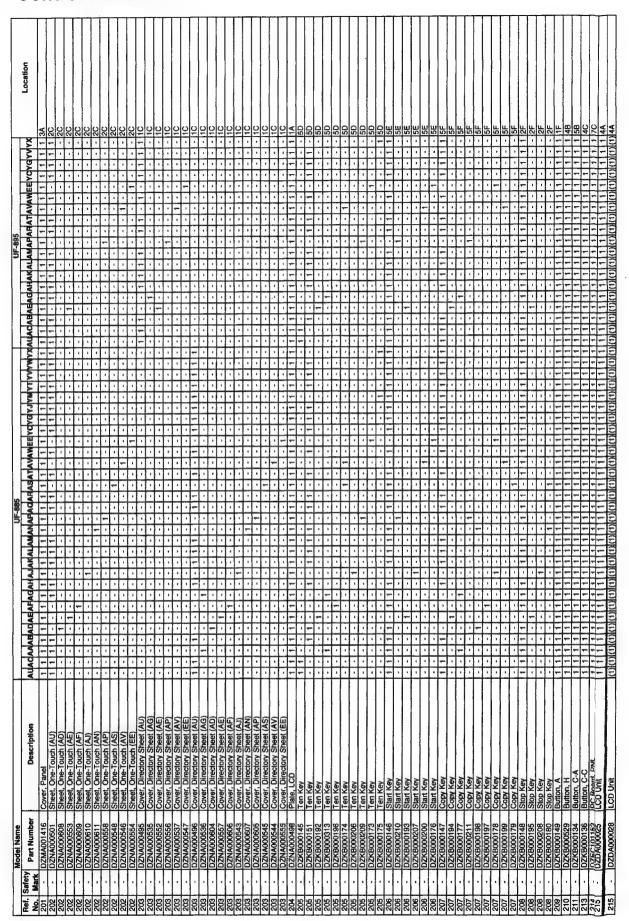
7.2 Cover Assembly

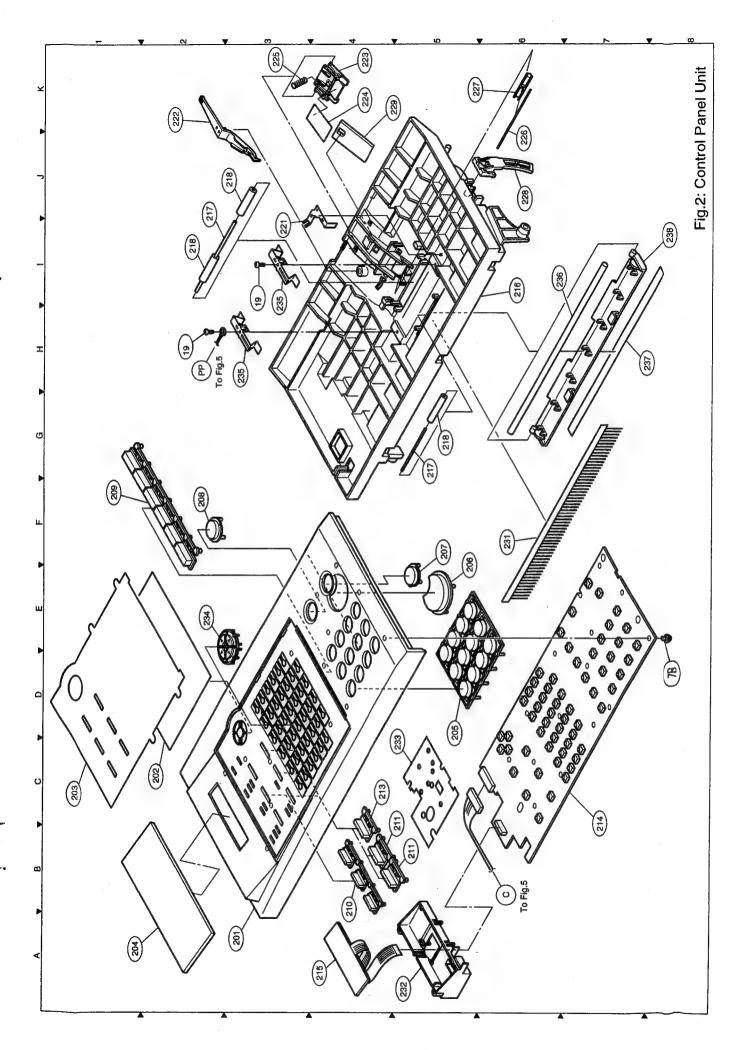
No. Mark Part Number No. Mark DZJE000165 102 - DZFN00090 102 - DZFN00090	er Description	ALIACAA	AFIANAE	ACACAN	ABAMAI	AMAMA	ACAPIASAT	TAVAWEE	VCVGV	MATAM	WYXAUAC	ABABAG	AHAKAL	AMAPAH/	ATAVAWE	EEYCYGY	XAXX	Location
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DZHC00008		1111	-	1 1 1	111	-	1 1 1	1111	11111	1111		-	111	-	-	-	1 30	
DZHC000034	Г	-	-	=	=	- -	-	-	=	-	-	-	-	-	1 1 1	-	1 30	
DZEC101107		-	-	-	-	-	-	-	-	-	-	-	-	- -	-	-	1 30	
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DZKN000086			1111	1111	11111	1111		1 1 1	1111	1 1 1 1 1 1		-	1111	1111	1111	1111	11H	
DZKP000078	Spring, PC Pressure	-	-	-	- -	1	-		-	-	-	-	-	-	-	-	-	
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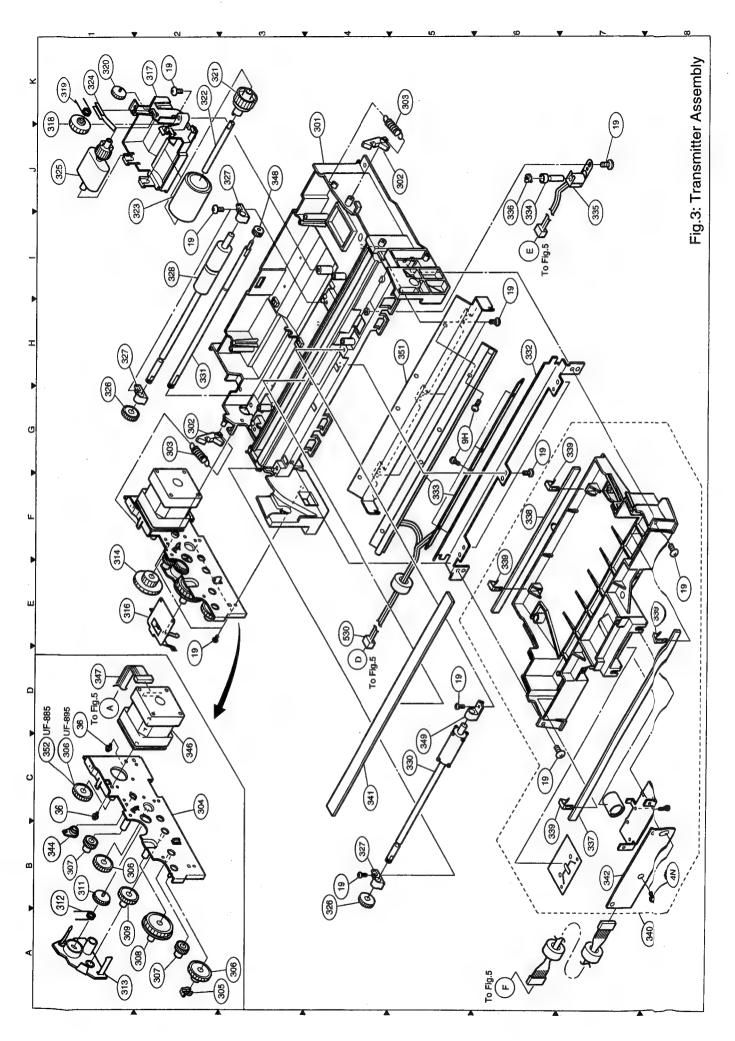
7.3 Control Panel Unit





7.4 Transmitter Assembly

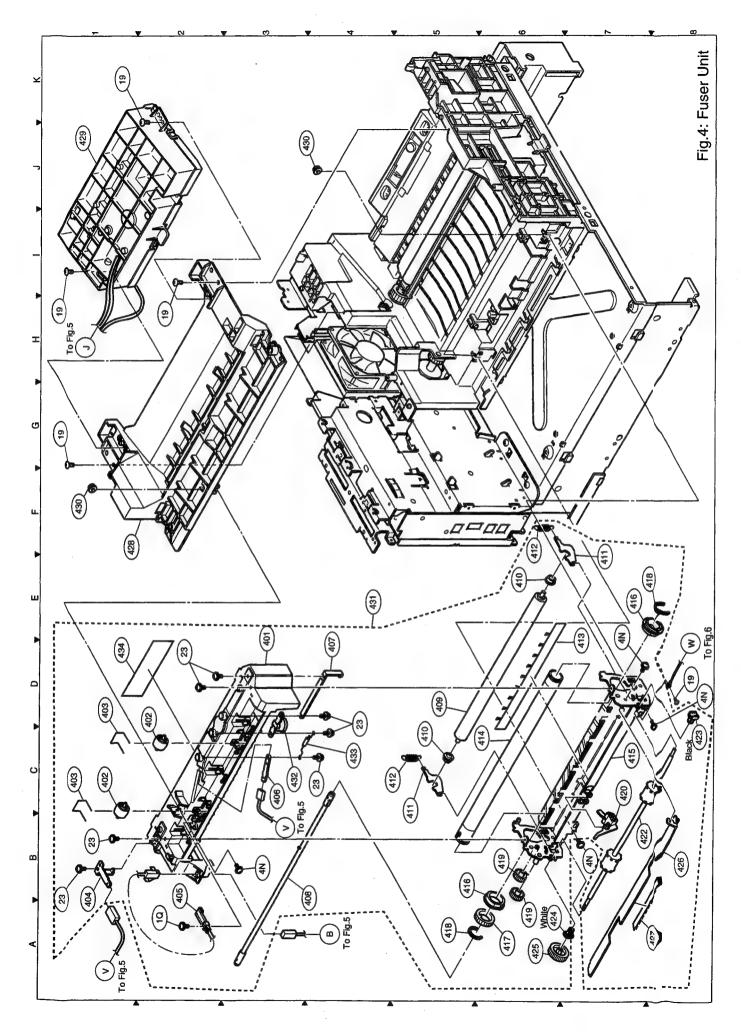
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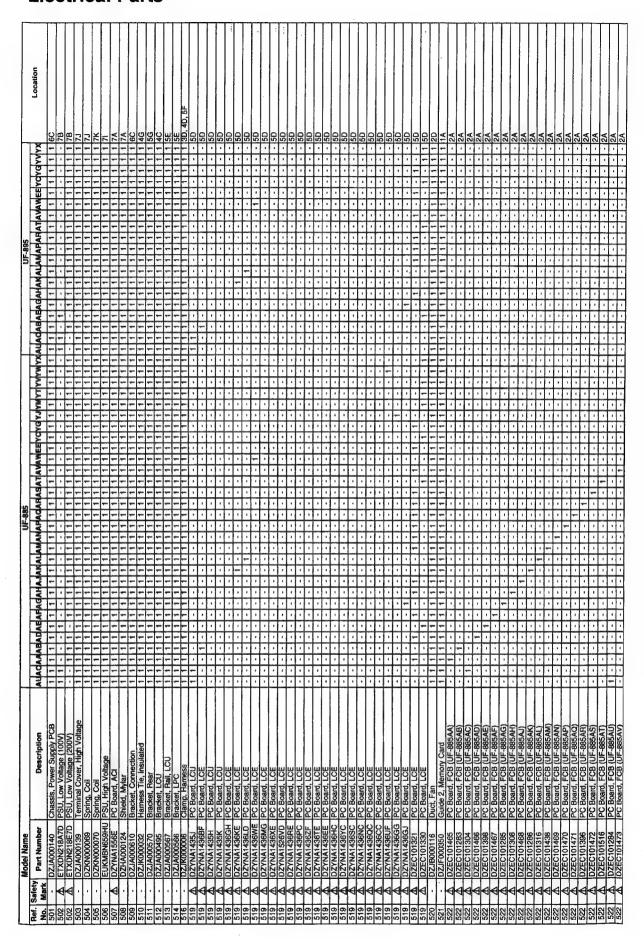
7.5 Fuser Unit

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		Description	er		ch Roller	Terminal C, Fuser Lamp	Assembly	Terminal A, Fuser Lamp	Terminal B, Fuser Lamp	er(115V)	er(220V)	essure	61.5.5	sure Roller	SSUR	Brush, Discharge, Front	er.	ser	17L6.8	3, E24			xit, Paper	**	Bushing, P3.5L11.2 (Black)	Bushing, P3.5L11.2 (White)		er, Lower	Brush, Discharge, Rear				115V	220V	12	St	Caution Label, High Temperature				
9	2	uper	12 Cover, Fuser	83 Roller, Idle	O5 Spring, Pinch Roller								41 Bushing, P6L5.5	119 Plate, Pressure Roller		Г		23 Frame, Fuser	347 Bushing, P17L6.8	47 Gear, Drive, E24	02 C-Ring	48 Gear, E14	367 Actuator, Exit, Paper		Г			61 Guide, Paper, Lower	Г	55 Stay, LSU	Laser Unit	O1 Nut	:60 Fuser Unit, 115V	35 Fuser Unit, 220V	14 Thermostat 2	113 Thermal Fuse		Screw		FC Screw	
Model Name		Part Number	DZJB000012	DZLA000083	DZKR000005	DZ.JC000082	DZGT000010	DZJL000017	DZJC000081	DZGN000006	DZGP00001	DZLA000133	DZLM000041	DZKK000019	DZKN000068	DZGT000008	DZLA000072	DZJB000023	DZLM000047	DZLF000147	DZPJ000002	DZLF000148	DZHC000067	DZLA000078	DZLM000040	DZLM000039	DZLF000129	DZJF000161	DZGT000009	DZJF000155	LPA1601F	DZPF000001	DZHP000260	DZHP000535	DZGT000014	DZGT000013	DZNK000036	XTB3+8J	XYN3+F8	XSN3+W8	XYN3+F10
	Dad Cofety	Mark			Ŀ	Ŀ			·			Ŀ	Ŀ		٠	٠	٠	٠		٠		,			٠		·	,		٠	٠	٠	Ŀ		,	٠	٠		,	,	٠
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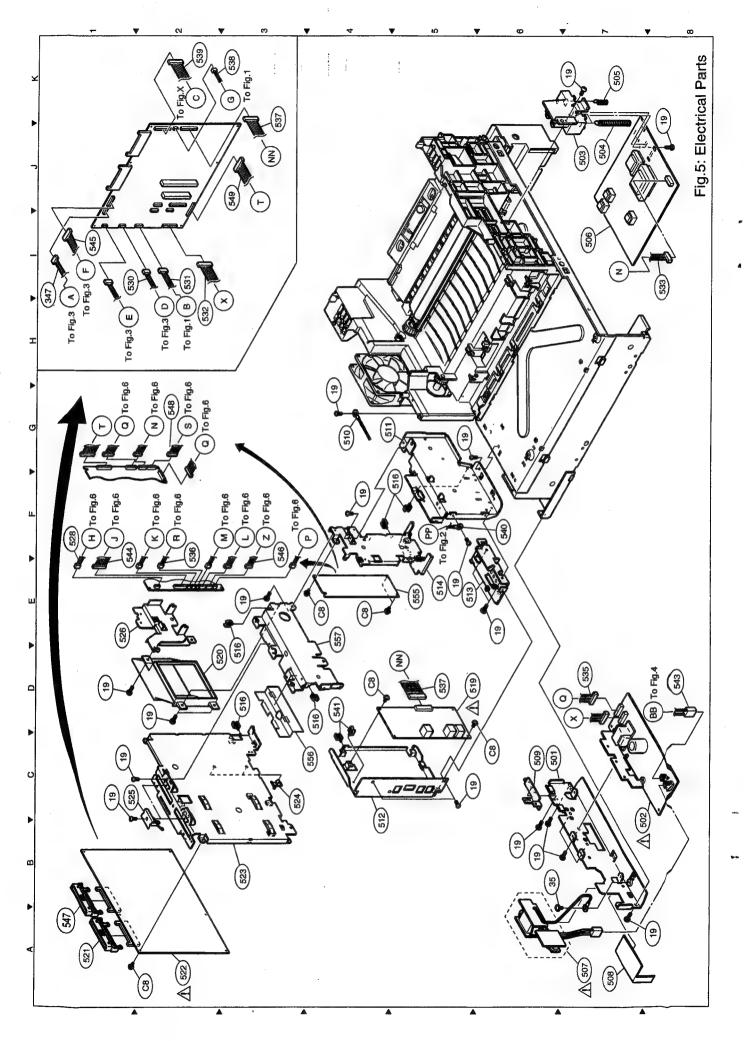
Note: If the Thermostat (Ref. No. 432) and/or Thermal Fuser (Ref. No. 433) is damaged by a Fuser over heat condition, the parts marked with "*" may also be damaged and should be replaced at the same time as the Thermostat and/or Thermal Fuse or replace the entire Fuser Unit.



7.6 Electrical Parts



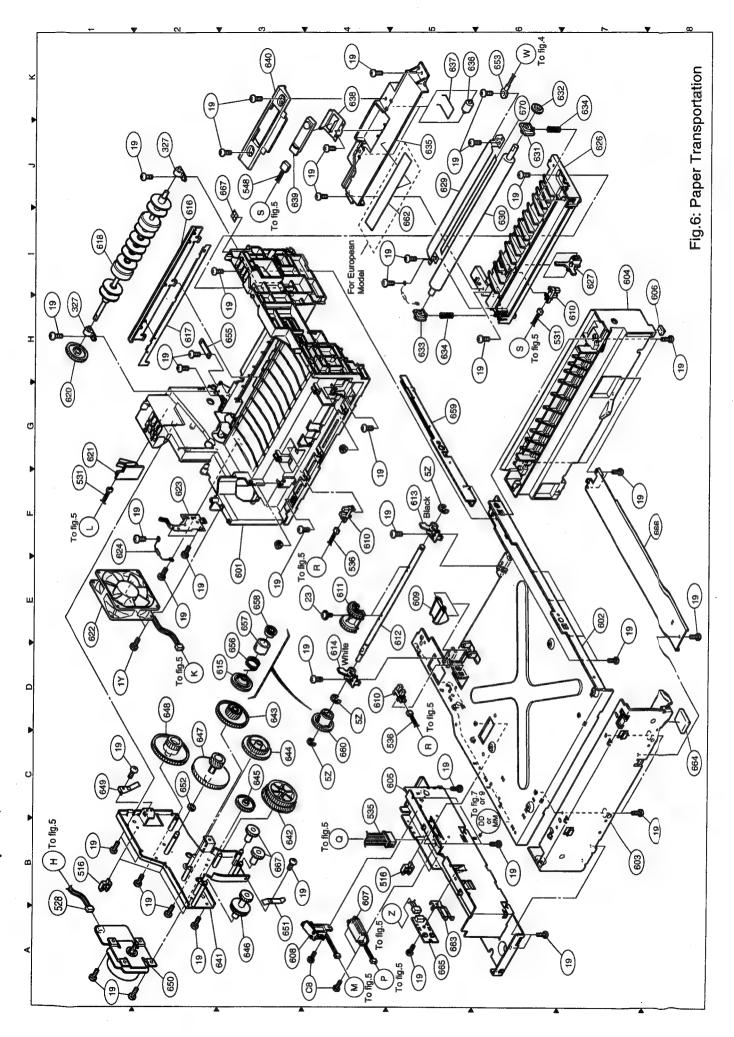
		Model Name							UF-88	26							UF-8	88			
		Part Number	Description	AUACA	ACAAABADAE	AEAFA	GAHAJ	NRALAM	ANAPAG	ARASAT	AVAW	EEYCYGYJ	YMYT	VVVWYXAL	A	ABAEAGAHAKAL	CALAMAPAR	Ā	AVAWEEY	EEYCYGYYYX	vx Location
	DZEC	Т	PC Board, FCB (UF-885AW)	1	1				-		-	1	1			-	- - -			-	- 2A
522	١.	DZEC101474 F	PC Board, FCB (UF-885EE)	-	1		-		-	•	-	•		•			•		•	•	- 2A
522	1		PC Board, FCB (UF-885YC)		-	-			•	•				-						•	- 2A
522	A DZEC		PC Board, FCB (UF-885YG)			-		-			-	-		-			· -			•	
522	A DZEC		PC Board, FCB (UF-885YJ)	-	-		-		-	-	-		-	-	-	-		-			- 2A
522	1	1	PC Board FCB (HE-885VM)			1	-		[1		 - -					1	-	
200	A DZE		PC Board ECR (IE-885VT)			-	-					-		+				-	1		
533	A DZE		PC Roard ECR (1E-885VV)		-				F					+	1	-	+	1		-	
500	1		A LOS OF THE SOUTH AND THE SOU	†	+	-	1	-	-	1	-	+	+	+	+	+	+			-	
7 2	₩ WEE	DZEC101440	PO DO DO TO TO THE SOUTH	-	-		•			• [• [1	+	: : :	1				:	•	
200	# 100E	- 4	DO DO LO CONTROLLA		:	1		•		· [• [•		+			:		+		
275	₩ UZE	- 1	PC Board, PCB (UP-895AB)	•	:	•		•	1 3	•		1 1	•		-		•		•		
222	DZE O	- 1	PC Board, FCB (UF-895AC)	•	:	•	•		1	•	-	•	· ·	•	1	-	•	•	1	•	- 2A
222	△ DZE(DZEC101358	PC Board, FCB (UF-895AE)	•	•	•		•	1	1		•		•							- 2A
522	△ IDZE		PC Board, FCB (UF-895AG)	•		-					-	-				-		-	:		- 2A
522	A DZEC	6	PC Board, FCB (UF-895AH)			-	-	-					-					-		:	
522	A NZE	DZEC101999	DC Board ECB /I IE DOGAIN		+		F	F	f				+	+	+					+	
100	A 107E		Change To and To and To	+	+	1		1			1			+	+			+		1	
770	A DZE	DZECIOIZA	TO DOBIG, TOD (UT-090AL)	-	:	•	-		• [•	:			•					:	
222	DZE!		PC Board, FCB (UF-895AM)	•	•	•	•	•	•		1	•	•	•	-	•	-	•	-		· 2A
222	△ DZE(PC Board, FCB (UF-895AP)	•	•	,	•	-							•		•	3	•		- 2A
522	△ IDZE(PC Board, FCB (UF-895AR)	•	-		· ·	•	•	•	•	-			•				-		. 2A
522	A DZEC		PC Board, FCB (UF-895AT)					[:		1						
822	A IDZE		PC Board, FCB (UF-R95AU)	-	-	1			-		-			-					-		
500	A INZE	Į.	DO Board ECB / IE OOKAW		+		-	F		+	+	+	+		+	+				+	
500	A DZE	1	DO Board ECB (115-005AW)	+	+		-	+	-		+	+		#	:			1			
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255	DZE	- 1	PC Board, PCB (UP-885EE)	•	:	:		•	•	<u>:</u>		•		•	-	•	•	•	-	-	- 2A
222	DZE(DZEC101	PC Board, FCB (UF-895YA)	•	•	•	•	•	•	•	•	•	•	•				•			- 2A
522	△ DZE(- 1	PC Board, FCB (UF-895YC)	•	•	•	•						•	•	-	·	•	-	•	·	
522	◆ DZE(PC Board, FCB (UF-895YG)	•	•	•	•	•	•		-	-	-	-			-		-	-	- 2A
522	DZEC ▼	ŧ.	PC Board, FCB (UF-895YV)	-	:			-					:				-		! !	-	
522	∆ IDZEC		PC Board, FCB (UF-895YX)		•				•	-		-							:	-	1 2A
523	ı	Г	Bracket, FCB	-	-	-	-	-	-	-	-	-	7	-		-	÷	-	-	-	1 2R
524	11211	Г	Spacer FCR PC Roam	-	-	-			• •						Í					,	
525	. DZII	DZ.II 000023	Plate Memory Cont Graind	-												•		•	•		200
828	N718	Т	Bracket Fan Duot				- -					1			1				- ,		2 1
200	DZE	П	Hampes DC Motor															- - -	- -		1,
270		DZF DOWNST	Hamose LED	+	-	-			-												
200	0.25	П	Tomoso, Pro		1	-				+									=	-	
200	· DZF	DZFPUOVIZ	Hamess, LEU							-							•		•	•	-
200	·	- 1	Hames, SNS			-			-[-	-	-	-	- - -		=	-	=	-	-	-	12
335	· UZF	- 1	Hamess, POW	=		Ξ	=	1-	-	-	-	-	-	1111	-	1111	1111	=	1111	1 1 1 1	1 2H
533	- DZFF		Hamess, HVPS	1 1	111	111	1 1 1	-	1 1	-	1 1 1	1	1 1	-	-		-	Ξ		-	1 88
535	- DZF		Hamess, SNS	11 11	-	=	-	=	-	-	-	-	-	=	=	=	=	=	=	-	1 7D
536	- DZFF		Hamess 1, SNS	=	-	=	=======================================	=	-	-	-	-	- -	-	=	-	=	-	-	-	1 2F
537	- DZF		Hamess, LCU	-	-	E	-	-	-	-	-	-	-	-	-	-	-	-	-		1 3K 5D
538	- DZFF	1	Hamess, SPF	-	-	-	-	-	-	-	-	-		-	-	-		-		-	XX.
539	- DZF	ı	Hamess, PNL	-		E	-				-										ZK.
540	- DZF	DZFP000705 (Ground Strap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5F
541	- DZJK		Clamp, Hamess	-	-	Ξ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 4D
543	- DZF		Hamess, Fuser Lamb	-	-	=	-	1 1 1	-	1	-	- -	-	-	-	-	-	-	-	-	1 RD
544	- DZFF	ŀ	Hamess, LSU	-	-	-	-	-	-		-	-	-	-	•		-	-			1 20
545	DZFF	•	Hamess, CCD		-										-		-	-			
545	DZE	Т	Hames CCD	-	-	-	-	-	-	+	-	-	- -	-						+	-
546	· h7FF	1	Hambee SNS		-					•		-									- 6
547	DZ IE	DZ IEOOO105	Guide 1 Momon Cam										- •			,		-	- , - , - ,	-	10
5/10	DZEE	П	Jamour Topos Concer		-					-	-	1	-								1 1A
240	200	025000200	ralless, loner sensor	-	- -	-			-					-						-	1 26
242	DAE	T	DO Board 100												-	-	-	-	-	-	1 33
3 5	DZE,	ı	TO DURIG, LT.					-		- [-			=	-	-	-	-	-	-	- -	1 5E
200	DZT.	DZHAUDUIZO	Protector Film, Harness									-				-	=	=	=	=	1 4C
347	DZE.	1	Hames TMOT		- -		-	- -	- [-		- •										1 4E
5	1		Mariess, IMOI	-	+					- -					=				=		1 11
- 61	XTR3		30000	-	+		•	-	-	•	-	•	-	-	-	•		-		,	11C, 1D, 2D, 3E, 4F, 4G, 5C, 5E,
150	1	1	Soron	- -	- -		-	÷	ŧ	ŀ			-		1	1		1	1	1	1 5G, 5B, 5C, 7N, 8A, 8K
3	XTW	XTW3+8SFC (S	Screw	-	F		-	-				-	1								1 00
		Į.		1	-	1								1				=	=		1 ZA, 4D, 4E, 6C



7.7 Paper Transportation

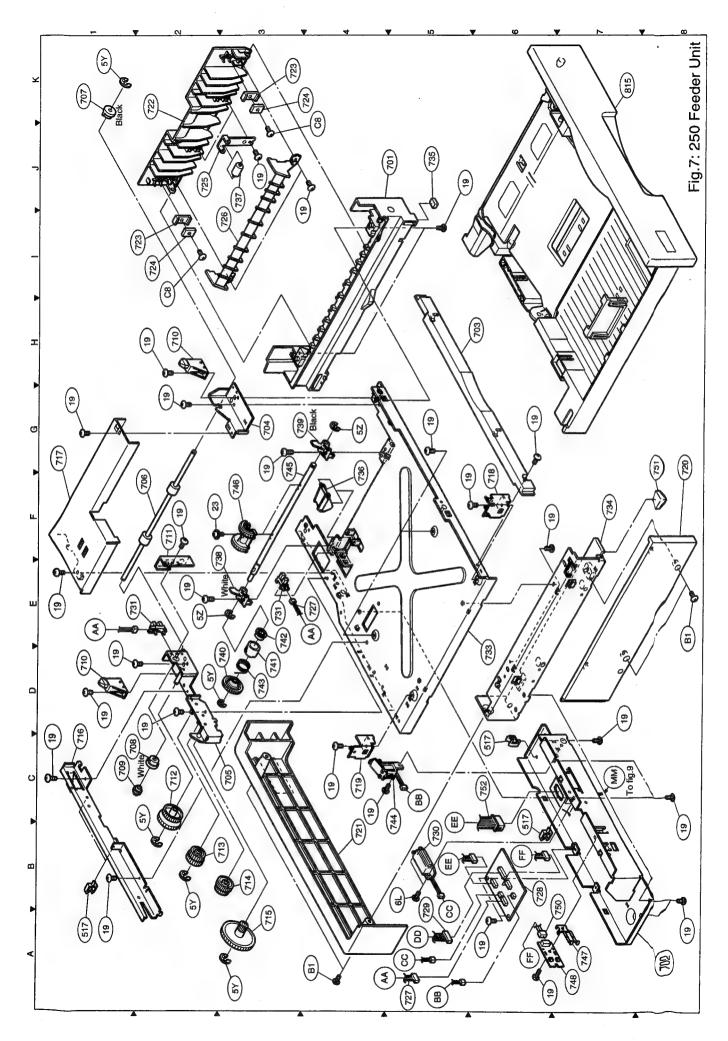
No. Mark Part Number	Main Frame Base Frame Gassette Rail, Left Cassette Rail, Right Star, Mathi 500 Rubber Leg Magnet, Calch	AUACAAABBABABABABABAAAAAAAAAAAAAAAAAAAA
DZJB000013	ain Frame Use Frame Use Fram Left Sseethe Rail, Right Sseethe Rail, Right State Rail, Right Speet Leg	
	use Frame sseette Faul, Left sseette Faul, Left sseette Faul, Right say, Flight 500 lober Leg signer, Calch	
	sseette Rail. Left ssseette Rail, Right av. Right 500 libber Leg ggret, Calch	1 1 1
	sssette Rail, Right ay, Right 500 Ibber Leg agnet, Catch	
	ay, right 500 laber Leg agnet, Catch	
	agnet, Catch	
	agret, Carci	
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	Actional application	
	idalor, No Paper	11 11 11 11 11 11 11 11 11 11 11 11 11
	Sensor, Timing	
	mel, rapel reed	
	Mit, reed noile!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	bushing, Fat. 18, Front (black)	
	Island, routo, near (write)	140
	281, FO4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Jide, Discharge, Plate	
	ate, Ulscharge	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Holler, Feed	
DZLF000132 G	Gear, Drive, E34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7	PC Board, ILS	
	Fan Unit	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DZKP000071 Sp	Spring, Ground Plate	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ssistor, 200M Ohms, 1/2 Watt	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	uide, Transfer, Lower	
	tuator, Timing	
DZKP000077	ide, BTR	
i	Mer, Bias Transfer (BTR)	
Г	Bushing, BTR, Front (Black)	
DZLF000130	Gear, BTR	
4	ebino RTB Deer (White)	
DZKNOOOSE ST	Soring RTB	
	ide Transfer Union	
	llar Pinch	
	ning Wise Dinch Dollar	
	woo Dieto Toose Secon	
	HING, Tale, TOTAL OF BO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 1	Sensor, Loner	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	wei, ioner derisor	
-	ECKEL, MOIOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 1	Gear, roopse	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 1	ar, Uzobys	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ı	ar, E32053	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 1	Gear, E29	
DZLF000113 G	Gear, E18E27	
	ar. E20D70	
	Gear E21D70	
Г	Spring Transfer Grand	
Т	Drintor Motor	
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t	Mochor	34
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- 4	Sidopper	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 4	Spring, Cott, Ciutch	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 8	se, Ciutch	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 1	im, Clutch	
DZJC000119 St	Stay, Front	
	ar Assembly, Clutch	
	Caution Label, High Temperature	
	ution Label, High Temperature	
	ution Label, High Temperature	
	rino Paner Size	
	thor I or (20)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Т	DC Board CON	111111111111111111111111111111111111111
Т	Doald, Solv	
╗	Plate, Bottom	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
T	Control Prints	
DZNK000023 GL	Guide, Toner Cartridge	

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	Location	×	2J, 1H	18, 58	18	1F, 6H ·	4C	4E, 5C	2	1A, 1B, 1C, 1H, 1J, 2A, 2B, 2E, 2F,	2H, 2K, 3B, 3E, 3H, 4D, 4F, 4J, 4I,	4K, 5A, 5C, 5J, 6B, 6H, 6J, 7A, 7E,	7F, 8B, 8E, 8H	4E	٥	4C, 4D, 5F	The state of the s
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	Description	Spacer 2	Bushing, P6L8	Clamp, Hamess	Hamess, DC Motor	Hamess, SNS	Hamess, SNS	Hamess 1, SNS	Hamess, Toner Sensor				Screw	Screw	Screw	E-Ring	
Model Name	Part Number	DZJH000043 Sp	DZLM0000050 Bu	DZJK000006 CI	Γ	DZFP000699 He	DZFP000572 He	DZFP000207 He	DZFP000753 Hs				XTB3+8J Sc	XYN3+F8 Sc	XTB3+10J	XUC6	
	Ref. Safety No. Mark			Ī		,			Ī				•	•		,	
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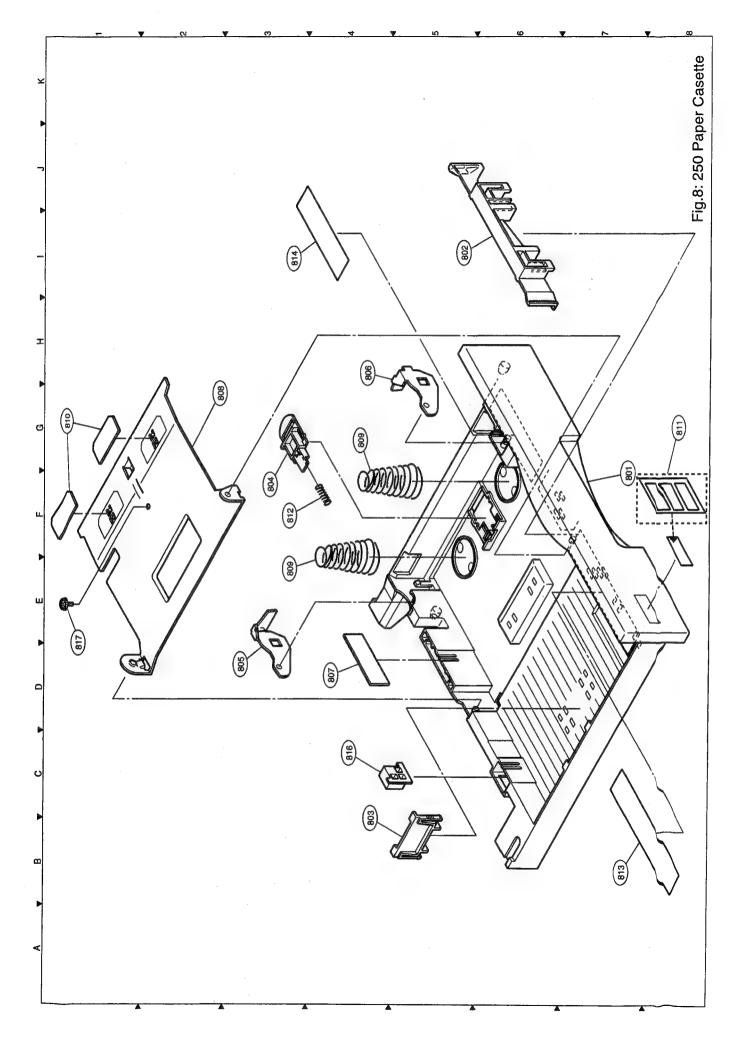
7.8 250 Feeder Unit

	1						
Controlled Con	Mark		Description	AGAN AJAKALAMANAPAG	ARASATAVAWEEYGYGYJYMYTYVYWYX	AGABIAEAGAHAKALAMAHAHATAVAWEEYGYGYVYX	Location
Control Cont	١.		Cassette Rail 2, Right	111111111111111111	111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Company Comp		DZJC000092	Stay 2, Rear		1111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
State Delivery Common	٠	DZJE000120	Cover, Blind	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Fig. Fig.		- 1	Bracket, Bushing, Front	=		1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 6	
Programment Programment		- 1	Bracket, Bushing, Hear			111111111111111111111111111111111111111	
Part Part		- 1	Holler, Intermediate				
Section (1999) Sect		- 1	P6L5, Front (Black)			¥	
Committee Comm		- I	P6L5, Hear (White)	-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
### ##################################		- 1	Gear, Drive, B28	-	111111111111	11111111111111111111111	
Court, State		- 1	Latch, Right			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
See Early See Se		-	Cover, Sensor		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11111111111111111111111111	
Seet, ECTIONS Count. Address Fig. 10 Fig.			Gear, E34B60		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Compact Carrier Compact Ca			Gear, E17D32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11111111111111111111111111	
Cover, CST (75) Section CST (١.	L	Gear D26C41			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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Cover, Casserie, Laff Cover, Casserie, Casserie, Laff Cover, Casserie, Casse		9000000770	Bracket, Rear			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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Magnetic Pager	,		Bracket, Magnet	= = =	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11111111111111111111111111111111111111	
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Horizonia CST2 Horizonia CST2 Horizonia CST2 Horizonia CST3 Hori	ŀ	1	Hamese SNS				
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See France Cassele Rail_Lift	. [DZALUMOSS	Sensor, No Paper			1 1 1 1 1 1 1 1 1 1 1 1 2E, 3E	
Rushing, Pale Annual Classed Hall		57,500015	Base Frame			(D)	
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Case, Clutch	,	- 1	Bushing, P8L18, Rear (White)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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Drum, Clutch Drum	ŀ	DZJB000024	Case. Clutch				
Spiring, Coli, Culuch Spiring, Coli, Culuch Solemoid, Pager Feed Spiring, Coli, Culuch Solemoid, Pager Feed Spiring, Coli, Culuch Spiring, Coli, Culuch Solemoid, Pager Feed Spiring, Coli, Culuch Spiring, Culuch Spiring, Coli, Culuch Spiring, Coli, Culuch Spiring	ŀ	DZ.IMOOORS	Drim Clifts				
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Screw 1 1 1 1 1 1 1 1 1		XTB3+8J	Screw	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111	111111111111111111111111111	7D. 8A. 8B
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7.9 250 Paper Cassette

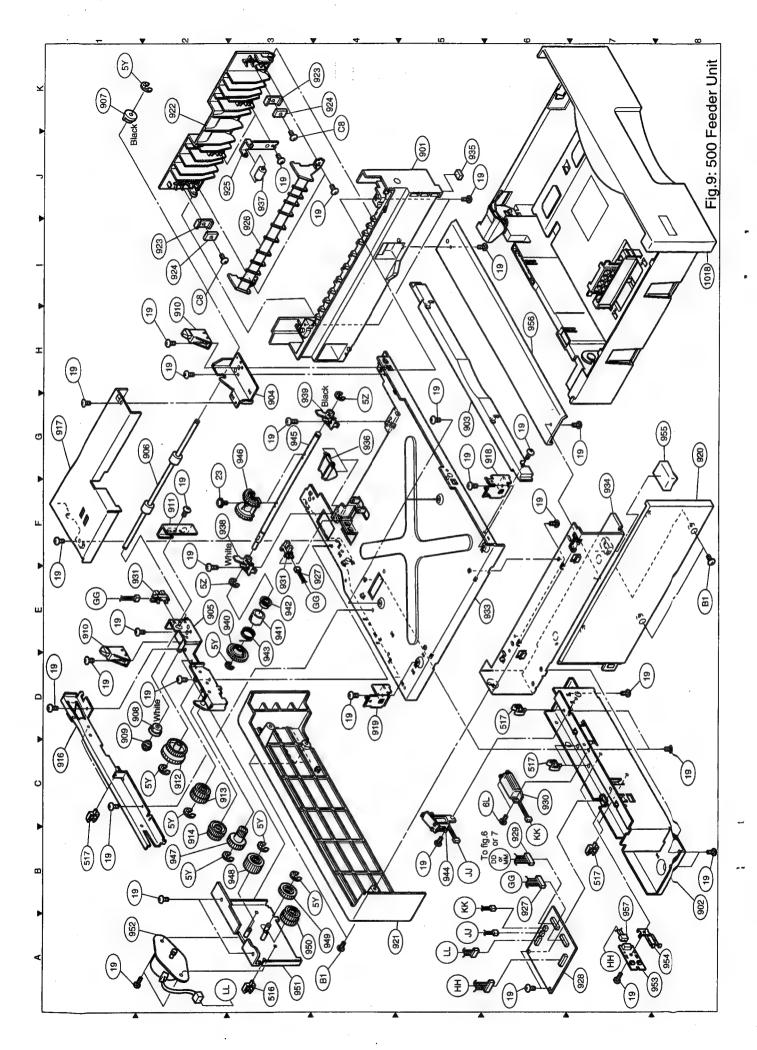
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80	- DZJF000194		Base Frame, Cassette	-	E	=	E	-	-	=	-	-	E	-	-	=	=	÷	-	-	-	-	-	-	-	1 7 7 7		T
805	- DZJF00	Ш	Guide, Paper Width	- -	-	=	=	-	-	=	-	-	=	- -	=	-	=	=	-	=	-	-	-	-	-	20		
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804	- DZJMO		Lock, Pressure Plate	1 1 1	-	-	=	=	-	=	=	=	=	=	=	-	=	=	-	-	-	-	-	-	-	1 35		T
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7.10 500 Feeder Unit

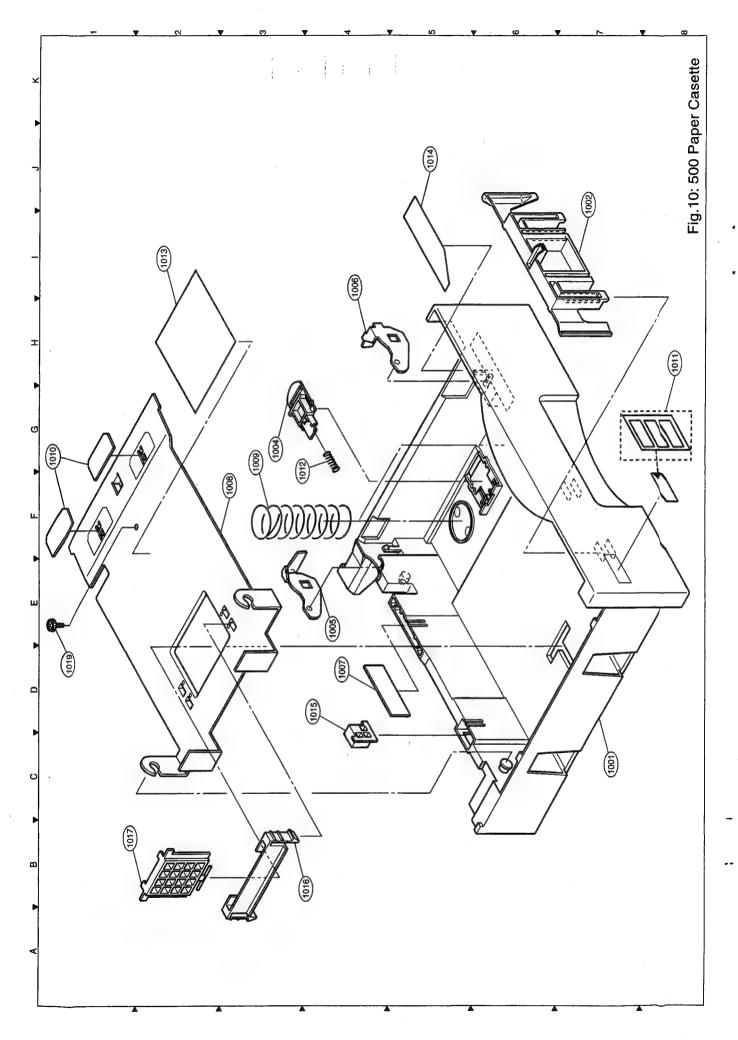
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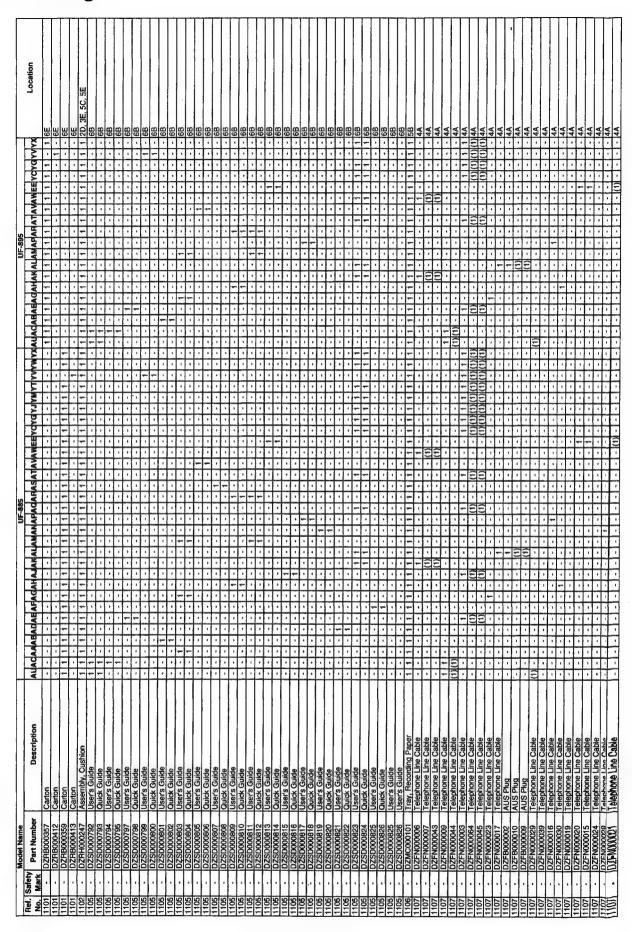


7.11 500 Paper Cassette

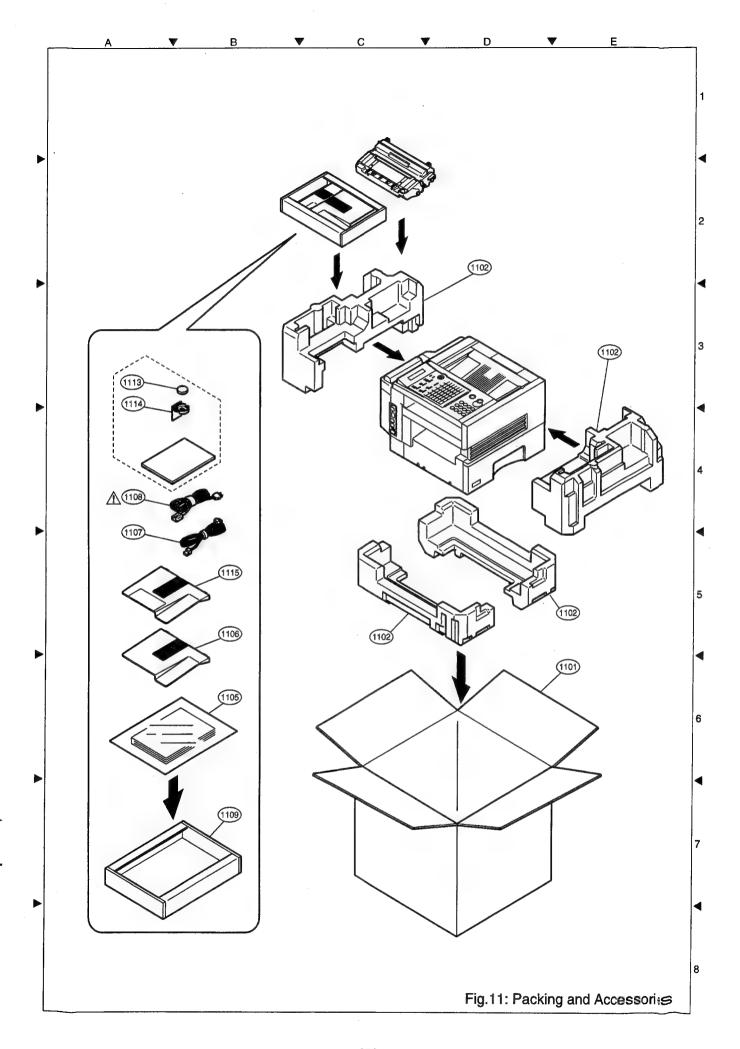
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7.12 Packing



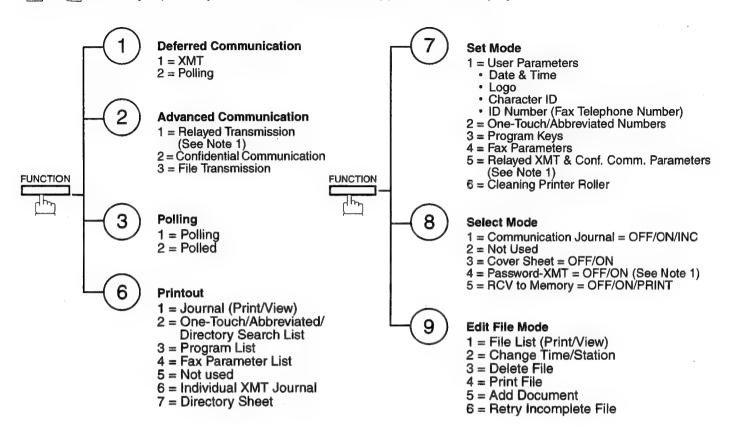
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1108	DZFM000004	rd	1	-	·	÷	-	-	-	•	•	=	·	-	=	•	-	=	Ŀ	-	Ξ	Ŀ	·		Ξ	ŀ	Ŀ	Ξ	-	Ŀ	•	Ξ	:	4A	
1108 ♠	DZFM000012	Power Cord		(1)) - (Ξ	- (1))(1)K	5	·	•		<u> </u>	(1)(1)	1(11)(-	- (1))(U)		Ξ	Ξ	·	•	-	1)(1)	÷	Ŀ	E	Ξ	:	= •	Ξ	-	4A	
1108	DZFM000028		•	(1)		Ξ	- (1))(1))(1)	10	•	·	9	Ĭ	(1)(1)	(1)	-	E	(1)		Ξ	Ξ	•	•	Ĭ	1	<u>:</u>	Ĭ	<u> </u>	Ξ	Ē	=	Ξ		44	
1108	DZFM000018	Power Cord	+	•	\cdot	÷	•	Ŀ	1	Ė	-	÷	·	•	Ť	•	,		•	•	Ŀ	-	-		Ŀ	<u>:</u>	Ŀ	:	Ŀ	Ŀ	ŀ	Ŀ	1	4A	
1108	DZFM000003	Power Cord (1	1)(1		·	÷	•	·	ŀ	÷	•	ŀ	•	•		•	•	•	Ŀ	•	ŀ	Ξ	Ξ		•	1	1		Ė	Ŀ	+	Ŀ		4A	
1108	DZFM000027	Power Cord (1	(1)(1)	·	$\overline{\cdot}$	Ė	•	Ŀ		Ė	·	-	-	•	Ė	•	•		Ŀ	•		Ξ	Ξ	•	•	•	•	•	Ŀ	Ŀ	<u> </u>	ŀ	•	44	
1108	DZFM000017		•	•	Ξ	Ċ	•	₫		Ė	•	÷	Ξ	-	Ė	•	H		Ξ	•	Ŀ	•	-	Ī	•	-	·	•	Ė	Ŀ	<u>:</u>	Ŀ	Ē	4A	
1108	DZFM000029	Power Cord	•	•	Ē	·		•		Ξ	·	•	(1)	•	•		-	•	(I)	•	Ĭ	÷	٦		•	Ē		•		Ŀ		Ŀ	Ē	(1) 4A	
1108	DZFM000009		•	•	Ŀ	÷	•	⊡	•	Ī	·		•	•	i	Ξ	H	i	•	•	Ŀ	•	•	·	•	-	ŀ	•	Ė	Ξ	+	·	ŀ	4A	
1108	DZFM000031			٠	·	·	,	·	•	٠	-	٠	•	•	•	(1)	٠	•	•	٠	•	•	•	-	•	Ξ		•	Ė	<u>-</u>	1	Ŀ	-	4A	
1108	DZFM000043		,	•	·	Ċ		⊡		٠	٠	÷	•	•		•		ì	•	•	Ŀ		•	·		-	•	•	÷	Ŀ	•	Ŀ	-	4A	
1108	DZFM000034			٠	٠	•	<u>.</u>	·	•	·	•	•	-	•	-	•	•		$\overline{\cdot}$	•	·	•	•	Ε	•		-	•	ŀ	·		Ē	•	4A	
1108	DZFM000030	Power Cord		•	·	·	• •	·	•	·	٠	•	•	•	Ŀ	•	-	-	•	÷	Ŀ	Ŀ	ŀ	Ŀ	•	<u>:</u>		:	Ė	Ŀ	-	Ŀ	•	44	
1108	DZFM000011	Power Cord			,	•	1	•	4	•	٠	•	٠	1	•	•	(1)	•		•	•	•		,	-	•			Ŀ	:	:	Ŀ	•	44	
1108	DZFM000010		•			٠	٠	·	•	÷	=	·	·	•	Ŀ		•		٠	•	·	•		·	,	•	-	E		:	Ξ	Ŀ	•	4A	
1108	DZFM000032		•	•	٠	÷		٠	÷	Ė	(1)	÷	Ē	÷	Ė	Ŀ	÷		•	•	Ŀ	-	•	·	•	•	Ξ	:	Ŀ		Ė	ŀ	•	4A	
1109	DZRD000008	Box, Accessories		Ξ	Ξ		-	Ξ	-	-	Ξ	=	Ξ	-	Ξ	Ξ	=	Ξ	-	-	=	Ξ	=	Ξ	-	-	Ξ	-	Ē	Ξ	=	Ξ	=	78	
1113	CH2032	Battery	-	Ξ		=	-	-	_	=	-	-	=	1	Ē	-	1	Ξ	Ξ	=	Ε		-	Ξ	-	=	Ξ	Ξ	Ē	-	-	Ε	-	38	
1114 -	DZJC000236	Holder, Battery	=	Ξ	Ξ	F	Ξ	=	=	-	Ξ	-	Ξ	=	É	Ξ	=	Ė	Ξ	=	Ε	Ξ	-	E	Ξ	=	Ė	Ξ	E	Ξ	-	Ε	=	3A	
1115 -	NA	(See Ref. No. 138 and 139)	-	Ξ	F	Ē	Ξ	Ξ	=	É	Ξ	-	Ξ	-	É	-	=	É	Ξ	F	Ē	-	=	E	E	-	Ē	F	Ē	E	-	E	Ē	gy	



8 Installation

8.1 Function Key

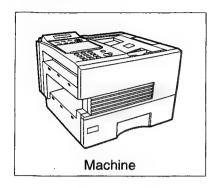
Any function can be started by first pressing FUNCTION and then enter the function number, or by pressing $\boxed{\blacksquare}$ or $\boxed{\blacksquare}$ scroll key repeatedly until the desired function appears on the display.

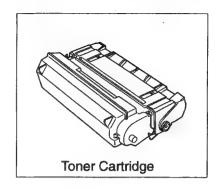


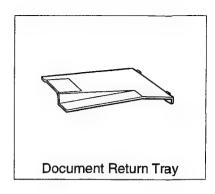
Note: 1. If Fax Parameter is not preset to a Valid position, which enables you to use the function, the display will not show the function.

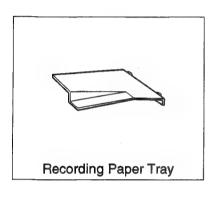
8.2 Main Unit and Accessories

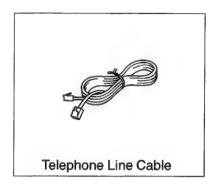
Unpack the carton and check that you have all the accessories illustrated.

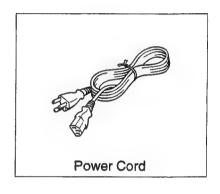


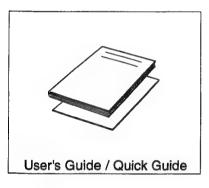


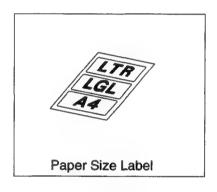


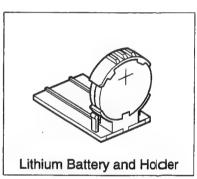




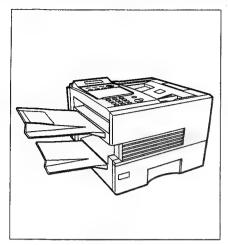








8.3 Installing the Accessories

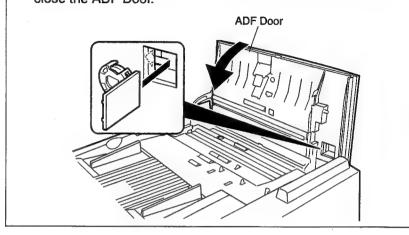


Final Installed View

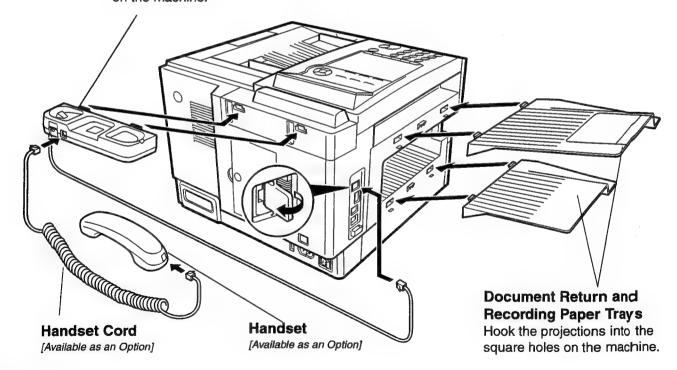
Installing the Lithium Battery

(This battery is used to backup the clock during power failures, see page 164 of the User's Guide.)

- (1) Open the ADF Door.
- (2) Install the Battery Holder, slide it to the Left until it latches and close the ADF Door.



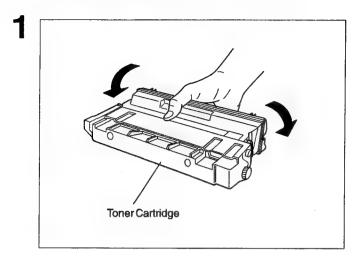
Handset Cradle [Available as an Option]
Hook the projections into the square holes on the machine.
Connect the cable into the HANDSET jack on the machine.



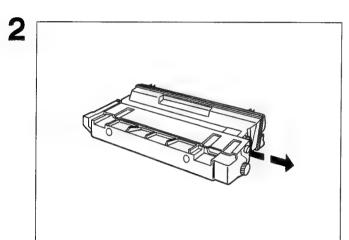
Note:

1. For some countries, the handset may not be available because of the country's regulation or specification.

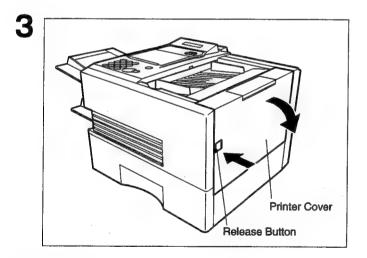
8.4 Installing the Toner Cartridge



Unpack the Toner Cartridge and rock it back and forth as shown for 5 or 6 times to even the toner inside.

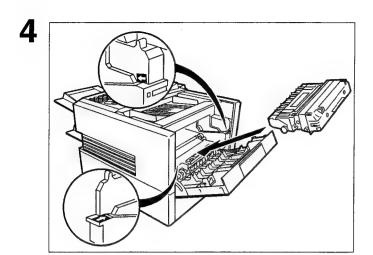


Remove the protective seal.

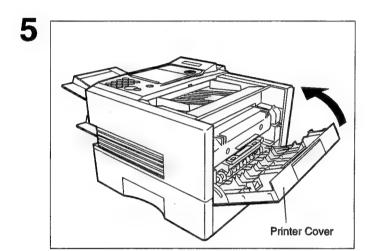


Push the Release Button to open the Printer Cover.

Continued on the next page.



Align the arrow and the projection on both sides as shown and insert the Toner Cartridge into the machine.



Close the Printer Cover firmly.

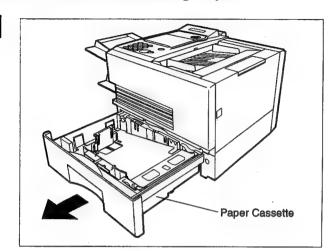
6 If you are replacing the Toner Cartridge, it is recommended to clean the Printer Roller to maintain good printing quality. To clean the Printer Roller, follow the procedure on page 161 of the User's Guide.

8.5 Loading the Recording Paper

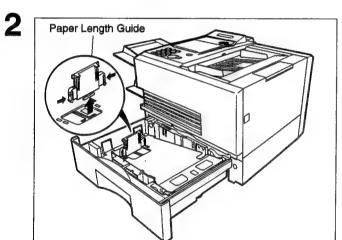
Paper Specifications

In general, most bond papers will produce excellent results. Most photocopy papers will also work very well. There are many "name" and "generic" brands of paper available. We recommend that you test various papers until you obtain the results you are looking for. For detailed recommended paper specifications, see page 170 of the User's Guide.

How to Load the Recording Paper



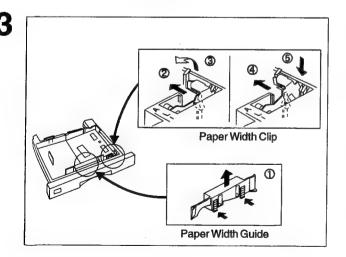
Slide out the Paper Cassette from the machine.



Adjust the Paper Length Guide to the proper paper size (A4, LTR, or LGL).

For LGL size paper, remove the Paper Length Guide and store it in the provided slot in the front left side of the Paper Cassette.

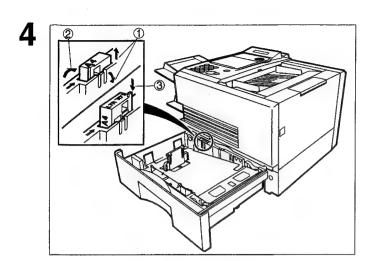
If reloading the same size of paper, skip the step 2 and 3.



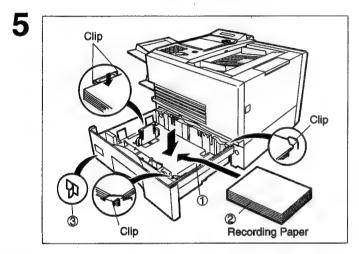
Adjust the Paper Width Guide and Clip to the proper paper (A4, or LTR/LGL).

The factory default for the Paper Width Guide and Clip are on LTR/LGL position. For A4 paper size, adjust by following the steps below.

- (1) Replace the Paper Width Guide into the proper slot (A4 or LTR/LGL).
- (2) Release the Paper Width Clip latch.
- (3) Pull upwards to remove the Paper Width Clip.
- (4) Replace the Paper Width Clip into the A(A4) or L(LTR/LGL) slot.
- (5) Push down on the Paper Width Clip lo latch it in place.



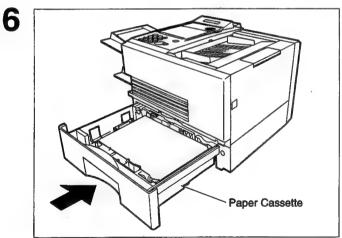
- (1) Release the hook and remove the Paper Size Selector.
- (2) Rotate the Paper Size Selector until the appropriate setting marked on the Selector is facing upward and the wording is upright.
- (3) Reinstall the Paper Size Selector.



- (1) Push the Pressure Plate until it is locked down.
- (2) Load the paper into the Paper Cassette.

Caution: Make sure that the paper is set under the clips of the Paper Cassette. You can load about 500 sheets with standard weight paper (20 lb. or 75 g/m²). For paper specification see page 170 of the User's Guide.

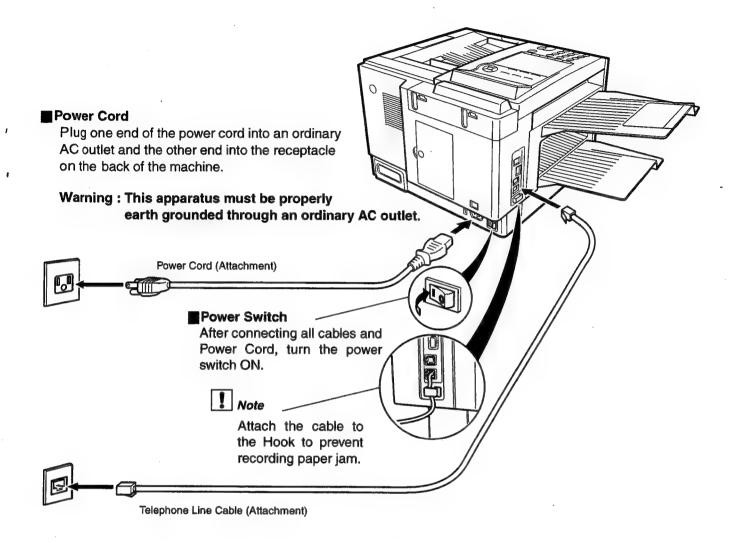
(3) Set the proper paper size label.



Slide the Paper Cassette into the machine.

Note:
1. Your machine will properly print on A4, Letter and Legal size paper only. If other size of paper (B4, B5, A5) is used,

8.6 Connecting the Telephone Line Cable and Power Cord



Telephone Line Cable

Plug one end of the telephone line cable into the telephone jack supplied by the telephone company and the other end into the LINE jack on the left side of the machine.

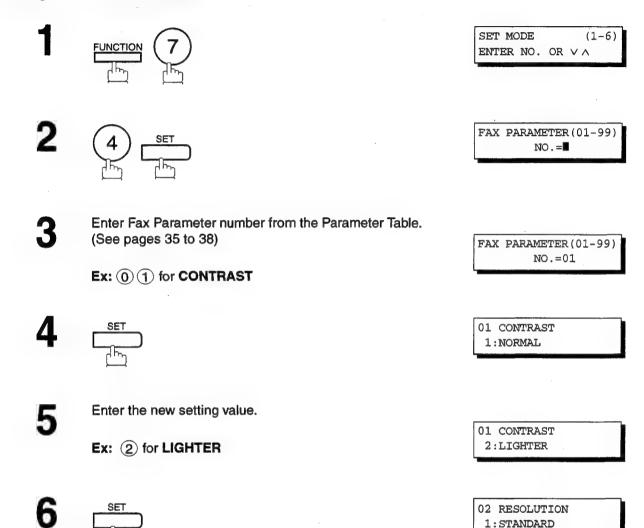
Note:

1. Your machine uses little power and you should keep it ON at all times.

8.7 Customizing Your Machine

Your facsimile machine has a variety of adjustable Fax Parameters. These parameters, listed in the Parameter Table, are preset for you and do not need to be changed. If you do want to make a change, read the table carefully. Some parameters, such as the Resolution, Contrast, and Verification Stamp parameters, can be temporarily changed by simple key operation just before a transmission is made. When the transmission ends, however, these parameters return to their preset values (Home position). Other parameters can only be changed by the procedure described below.

Setting the Fax Parameters





1. To scroll the Fax Parameters in Step 2 or 4, press ▼ or ▲.

step 3 or press STOP to return to standby.

2. To print out a Fax Parameter List, see page 151 of the User's Guide.

To set another parameter, press CLEAR to return to

Fax Parameter Table

No.	Parameter	Setting Number	Setting	Comments
01	CONTRAST	1	Normal	Setting the home position of the CONTRAST key.
		2	Lighter	1
		3	Darker	
02	RESOLUTION	1	Standard	Setting the home position of the RESOLUTION key.
		2	Fine	
		3	S-Fine	
04	STAMP	1	Off	Setting the home position of the STAMP key.
		2	On	To select the stamp function when document is stored in memory, see Fax Parameter No. 28.
05	MEMORY	1	Off	Setting the home position of the MEMORY key.
		2	On	
06	DIALING METHOD	1	Pulse	Selecting the dialing method.
		2	Tone	
07	HEADER PRINT	1	Inside	Selecting the printing position of the header.
		2	Outside	Inside : Inside TX copy area. Outside : Outside TX copy area.
		3	No print	No print : Header is not printed.
08	HEADER FORMAT	1	Logo, ID No.	Selecting the header format.
		2	From To	
09	RCV?D TIME PRINT	1	Invalid	Selecting whether the machine prints the received date & time
		2	Valid	remote ID, percentage of reduction and page number on the bottom of each received page.
10	KEY/BUZZER VOLUME	1	Off	Selecting the volume of the Key/Buzzer tone.
		2	Soft	
		3	Loud	
12	COMM. JOURNAL	1	Off	Selecting the home position of printout mode for COMM. Journal Off/Always/INC.
		2	Always	Off : No printout Always : Always prints out
		3	Inc. only	Inc. only: Printout when communication has failed.
13	AUTO JOURNAL PRINT	1	Invalid	Selecting whether the machine prints the journal automatically
		2	Valid	after every 100 transactions.
14	FILE ACCEPTANCE REPORT	1	Invalid	Selecting whether the machine prints the file acceptance journal.
	REPORT	2	Valid	If you set this parameter to valid, a journal will print out after any memory communication.
17	RECEIVE MODE	1	Manual	Setting the reception mode to automatic or manual.
		2	Auto	
22	SUBSTITUTE RCV	1	Invalid	Selecting whether the machine receives to memory when recording paper runs out, toner runs out or recording paper is
		2	Valid	jammed.

Continued on the next page.

No.	Parameter	Setting Number	Setting	Comments
24	PRINT REDUCTION	1	Fixed	Selecting print reduction mode. Fixed: Reduce received document according to setting of Parameter No. 25.
		2	Auto	Auto: Reduce received document according to the length of received documents.
25	REDUCTION RATIO	70	70%	Selecting fixed print reduction ratio from 70% to 100%. This
				parameter functions only when fixed print reduction is selected on Fax Parameter No. 24.
		100	100%	
26	POLLING PASSWORD		()	Setting a 4-digit password for secured polling. (See page 68)
27	POLLED FILE SAVE	1	Invalid	Selecting whether the machine retains the polled document in
		2	Valid	memory even after the document is polled once.
28	STAMP AT MEM. XMT	1	Invalid	Selecting whether the machine stamps the original documents
		2	Valid	when storing the documents into memory. (depending on the Stamp setting on the Control Panel)
30	DRD SERVICE	1	Invalid	Selecting whether or not the machine is available "DRD Service". If this parameter is set to "Valid", your machine detects the
		2	Valid	specified ring pattern only to receive a document automatically.
31	INCOMPLETE FILE	1	Invalid	Selecting whether the machine retains the document in memory if
	SAVE	2	Valid	the document is not successfully transmitted.
32	COPY REDUCTION	1	Manual	Selecting whether the machine performs the copy reduction ratio automatically or manually. Manual: The machine will prompt you for the Zoom ratio (100% to
		2	Auto	70%) when making copies. Auto : The machine will automatically determine the reduction ratio according to the length of the original document.
33	XMT REDUCTION	1	Invalid	Selecting whether the machine performs reduction when the
		2	Valid	transmitting document is wider than the recording paper used at the receiving machine.
34	ENERGY SAVER MODE	1	Off	To reduce the power consumption in standby, select either Energy-Saver or Sleep mode and specify the Delay Time (1 to 120 minutes) for the machine to enter into the selected mode. The Delay Timer setting is only available in the Energy-Saver or Sleep Modes.
		2	Energy-Saver	when in standby mode by turning off the fuser unit after the specified time. Sleep Mode: This is the lowest power state that the
		3	Sleep	machine enters after the specified time without actually turning off. (Sleep Mode Is not available when the optional Parallel Port Interface Kit, Page Description Language Printer Interface Kit or G3 Communication Port Kit is installed)

Continued on the next page.

No.	Parameter	Setting Number	Setting	Comments	
37	RCV TO MEMORY		()	Enter a 4-digit password used to print out the received document in memory by using F8-5 (RCV TO MEMORY). When F8-5 is set to On, this parameter will not be shown on the LCD display. (See page 87 of the User's Guide.)	
38	ACCESS CODE		()	Enter a 4-digit Access Code to secure the machine from unauthorized use. (See page 85 of the User's Guide.)	
40	RELAY XMT REQUEST	1	Invalid	Selecting whether the machine accepts and performs Relay	
		2	Valid	Request. (See page 125 of the User's Guide.)	
41	CONF. FAX PARAMETER	1	Invalid	Selecting whether the machine performs Confidential Network	
		2	Valid	Communication. (See page 125 of the User's Guide.)	
42	CONF. POLLED FILE	1	Invalid	Selecting whether the machine saves the confidential polled file	
	SAVE	2	Valid	even after the file is polled once.	
43	PASSWORD-XMT	1	Off	Setting a 4-digit XMT-Password and selecting whether the	
		2	On	machine performs and checks the XMT-Password of the receiving station when transmitting. (See page 113 of the User's Guide.)	
44	PASSWORD-RCV	1	Off	Setting a 4-digit RCV-Password and selecting whether the	
		2	On	machine performs and checks the RCV-Password of the transmitting station when receiving. (See page 114 of the User's Guide.)	
46	SELECT RCV	1	Invalid	Selecting whether the machine performs selective reception.	
		2	Valid	(See page 111 of the User's Guide.)	
48	TELEPHONE LINE	1	PSTN	Selecting the type of line connected.	
		2	PBX	(1.55)	
49	PSTN ACCESS CODE		0	Setting PSTN Access Code. (max. 4 digits)	
50	FLASH KEY	1	Earth	Selecting to use FLASH on control panel either as Earth key or	
		2	Flash	Flash key.	
52	DIAGNOSTIC PASSWORD		()	Setting the password for Remote Diagnostic Mode. Please ask your Panasonic Authorized Dealer for details.	
53	SUB-ADDRESS PASSWORD		()	Setting a 20-digit password for secured sub-address communication.	
54	FAX FORWARD	1	Invalid	Selecting whether the machine performs Fax Forwarding to the	
		2	Valid	specified destination. (See page 92 of the User's Guide.)	
56	COVER SHEET	1	Off	Setting the home position of the Cover Sheet parameter in the	
		2	On	Select Mode. (See page 90 of the User's Guide.)	
58	LANGUAGE	1	English	Selecting the language to be shown on the display and reports.	
		2	German		
60	OPTION PAGE MEMORY	1	OMB	Set the size of the page memory to match the optional Expansion	
	(D-RAM Card)	2	2MB	D-RAM Card installed in the machine. (See page 171 of the User's Guide.)	
		3	4MB		
		4	8MB]	

Continued on the next page.

No.	Parameter	Setting Number	Setting	Comments
65	PRINT COLLATION	1	Invalid	Selecting whether the machine prints out documents in sequence.
		2	Valid	(See page 63 of the User's Guide.)
77	LOGO/DEPT. CODE	1	Invalid	Selecting whether the machine performs the Multiple Logo or
		2	Multi-LOGO	Department Code operation. (See pages 97 and 106 of the User's Guide.)
		3	Dept.Code	
82	QUICK MEMORY XMT	1	Invalid	Selecting whether the machine performs Quick Memory Transmission. (See page 46 to 49 of the User's Guide.) Invalid: Stores all documents into memory first before dialing the
		2	Valid	telephone number. Valid: Starts dialing the telephone number immediately after storing the first page.
88	LINE SELECTION [See Note 2]	1	Auto	Setting the home position of the Telephone Line selection. Auto: Selects the available telephone line for transmission
		2	Line 1	automatically. Line1: Selects this as the default telephone line, unless manually
		3	Line 2	selecting an alternate phone line. Line2: Selects this as the default telephone line, unless manually selecting an alternate phone line.
99	MEMORY SIZE (Flash Memory)	-	-	Displays the amount of base and optional memory installed. (Base Memory + Optional Memory)

Note:

1. The standard settings are printed on the Fax Parameter List. To print out Fax Parameter List, see page 151

^{2.} This parameter is available only when the G3 Communication Port Option is installed.

^{3.} The contents of Fax Parameter may differ depending on the each country's regulation or specification.

9 Options and Supplies

9.1 Options and Supplies

A. Options:

Order No.	Picture	Description	Available Models	
UE-403160		Handset Kit	UF-885 UF-895	
UE-409057		250 sheets Letter / Legal / A4 Size Paper Cassette with the Feeder Unit	UF-885 UF-895	
UE-409056		500 sheets Letter / Legal / A4 Size Paper Cassette with the Feeder Unit	UF-885 UF-895	
UE-410045		Expansion Flash Memory Card, 1 MB		
UE-410046		Expansion Flash Memory Card, 2 MB	UF-885	
UE-410047		Expansion Flash Memory Card, 4 MB	UF-895	
UE-410048		Expansion Flash Memory Card, 8 MB		
UE-410033		Expansion D-RAM Card, 2MB		
UE-410034		Expansion D-RAM Card, 4MB	UF-885 UF-895	
UE-410057		Expansion D-RAM Card, 8MB	01 000	
UE-403159		Parallel Port Interface Kit (Used for Printer or Scanner Interface) (Available in late Spring of 1999)	UF-885 UF-895	
UE-407019		G3 Communication Port Kit (Available in late Spring of 1999) This option is NOT available together with the Page Description Language Printer Interface Kit (UE-403162).	U F-895	
UE-403162	Jano Con Con Con Con Con Con Con Con Con C	Page Description Language Printer Interface Kit (Available in late Summer of 1999) This option is NOT available together with the G3 Communication Port Kit (UE-407019).	UF-885 UF-895	

B. Supplies:

Order No.	Picture	Description	Available Models
FX-13-2P		Verification Stamp	UF-885 UF-895
UG-3313		Toner Cartridge	UF-885 UF-895

9.2 Installing Optional Feeder Unit (UE-409057)

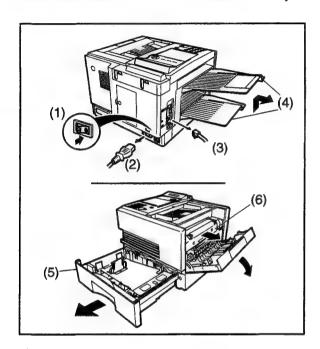
1. Contents

Qty.	Description	Part No.	Remarks
1	250 Sheets Paper Cassette with Feeder Unit	-	
1	Paper Size Label Set	DZNK000298	

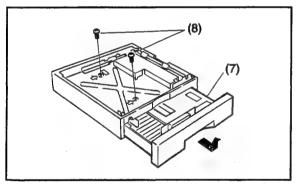
2. Installation

Note:

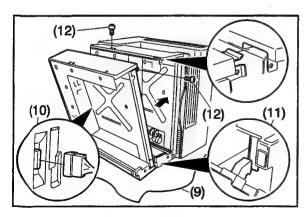
Install this Feeder Unit as the 2nd Feeder Unit only.



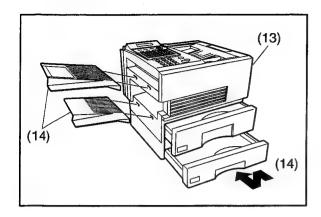
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.
- (4) Remove the Document Trays.
- (5) Remove the Paper Cassette from the machine.
- (6) Remove the Toner Cartridge from the machine.



- (7) Remove the Paper Cassette from the Optional Feeder Unit.
- (8) Remove the two Screws on the new Feeder Unit indicated by the arrow marks. (These screws are used to attach the Feeder Unit to the machine in step 12.)



- (9) Place the machine on its right side on top of a clean cloth to prevent damaging the Printer Cover.
- (10) Plug-in the connector of the Feeder Unit.
- (11) Hook the latches of the Feeder Unit into the holes and set the Feeder Unit in the direction of the arrow.
- (12) Secure the Feeder Unit with the screws removel in step 8.



- (13) Place the machine upright.
- (14) Re-install the Document Trays, the Paper Cassettes and the Toner Cartridge.
- (15) Re-connect the Power Cord and the Telephone Line Cable.
- (16) Turn the Power Switch to the ON (I) position.
- (17) Print some pages from the Optional Feeder Unit to confirm its operation.

Note:

The paper size guides are factory set to the Letter size. If you are using either A4 or Legal size paper, please adjust the paper size guides accordingly.

9.3 Installing Optional Feeder Unit (UE-409056)

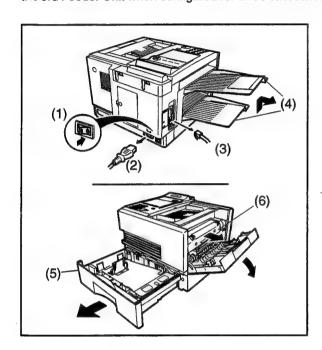
1. Contents

Qty.	Description	Part No.	Remarks
1	500 Sheets Paper Cassette with Feeder Unit	-	
1	Paper Size Label Set	DZNK000298	

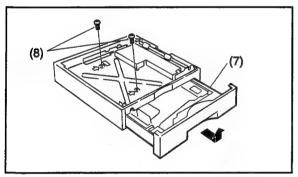
2. Installation

Note:

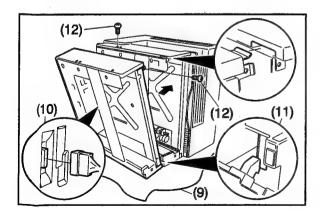
Always install this Feeder Unit at the base of the unit. Install it as the 2nd Feeder Unit when configured for two cassettes or as the 3rd Feeder Unit when configured for three cassettes.



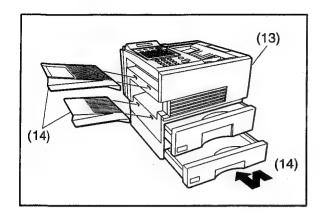
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.
- (4) Remove the Document Trays
- (5) Remove the Paper Cassette from the machine.
- (6) Remove the Toner Cartridge from the machine.



- (7) Remove the Paper Cassette from the Optional Feeder Unit.
- (8) Remove the two Screws on the new Feeder Unit indicated by the arrow marks. (These screws are used to attach the Feeder Unit to the machine in step 12.)



- (9) Place the machine on its right side on top of a clean cloth to prevent damaging the Printer Cover.
- (10) Plug-in the connector of the Feeder Unit.
- (11) Hook the latches of the Feeder Unit into the holes and set the Feeder Unit in the direction of the arrow.
- (12) Secure the Feeder Unit with the screws removed in step 8.



- (13) Place the machine upright.
- (14) Re-install the Document Trays, the Paper Cassettes and the Toner Cartridge.
- (15) Re-connect the Power Cord and the Telephone Line Cable.
- (16) Turn the Power Switch to the ON (I) position.
- (17) Print some pages from the Optional Feeder Unit to confirm its operation.

Note:

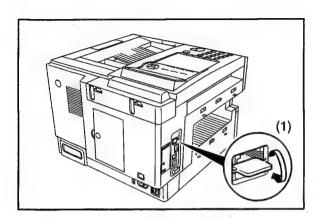
The paper size guides are factory set to the Letter size. If you are using either A4 or Legal size paper, please adjust the paper size guides accordingly.

9.4 Installing Handset Kit (UE-403160)

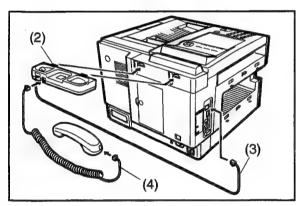
1. Contents

Qty.	Description	Part No.	Remarks
1	Handset	DZDU000031	
1	Handset Cord	DZFN000066	
1	Cradie Assembly	DZML000132	

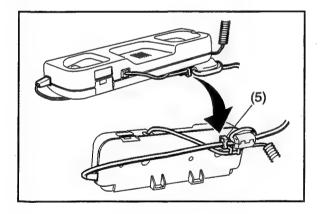
2. Installation



(1) Break off the protective tab of the HANDSET Jack.



- (2) Hook the projections of the Cradle Assembly into the holes on the rear of the machine.
- (3) Connect the cable from the Cradle Assembly to the HANDSET Jack on the left side of the machine.
- (4) Connect the Handset Cord.



(5) Route the Handset Cord along the hooks on the bottom of the Cradle Assembly.

9.5 Installing Parallel Port Interface Kit (UE-403159)

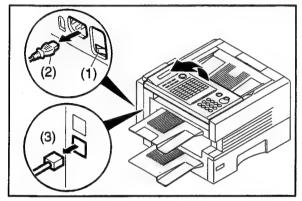
1. Contents

Qty.	Description	Part No.	Remarks
1	Parallel Port Interface Assembly	DZMA001832	-
1	Ribbon Cables	DZHP002970	-
1	Screw, 3x8	XTB3+8J	-
1	Print/Twain Scanner Driver Diskette	DZQW000112	Floppy Disk 2HD

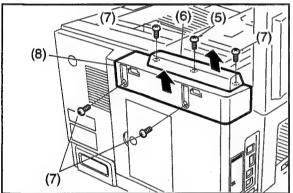
2. Installation

Note:

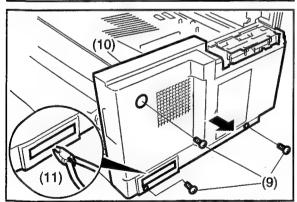
Before starting the installation, prepare the Master Firmware Card with the appropriate Optional Firmware. (See page 48)



- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.



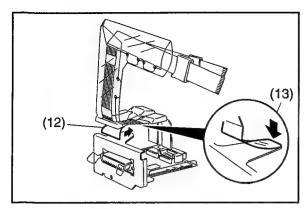
- (4) Open the Control Panel.
- (5) Remove 1 Screw.
- (6) Remove the Memory Card Cover.
- (7) Remove 4 Screws.
- (8) Remove the Sub Rear Cover.



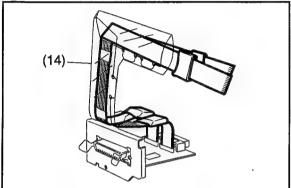
- (9) Remove 3 Screws.
- (10) Remove the Rear Cover.
- (11) Break off the protective tab.

Note:

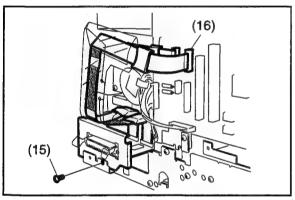
Order a Protective Bracket (P/N: DZJA000633) to cover up the opening if the interface is removed.



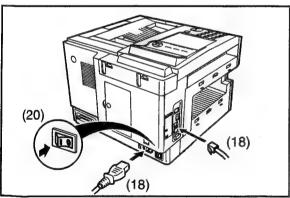
- (12) Peel off the brown adhesive protector from the protective film.
- (13) Secure the protective film to the top of the Parallel Port Interface Bracket as illustrated on the left.



(14) Connect the Ribbon Cables as illustrated on the left.



- (15) Secure the Parallel Interface Assembly with the screw that was enclosed with the kit.
- (16) Connect the Ribbon Cables to the CN51 and CN52 on the FCB PC Board.



- (17) Re-install the Rear Cover.
- (18) Re-connect the Power Cord and the Telephone Line Cable.
- (19) Insert the Master Firmware Card that you have prepared into the machine.
- (20) Turn the Power Switch to the ON (I) position.
- (21) Perform the Service Mode 9-1 (Firmware Update). (See page 186)
- (22) Perform the Service Mode 6 (Parameter Initialization). (See page 179)
- (23) Turn the Power Switch to the OFF (O) position.
- (24) Remove the Master Firmware Card.
- (25) Re-install the remaining Covers.
- (26) Turn the Power Switch to the ON (I) position.

9.6 Installing Page Description Language Printer Interface Kit (UE-403162)

1. Contents

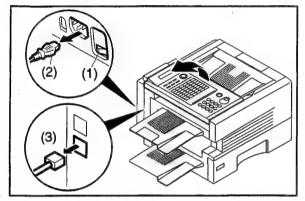
Qty.	Description	Part No.	Remarks
1	Enhanced Printing PC Borad	DZEC101411	-
1	PCB Spacer	DZJH000059	-
1	Parallel Port Interface Assembly	DZMA001832	-
1	Ribbon Cables	DZHP002970	-
1	Screw, 3x8	XTB3+8J	•
1	Print Driver	DZQX000003	Floppy Disk 2HD

2. Installation

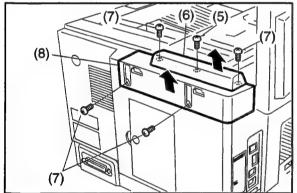
Note:

Make sure that the Parallel Port Interface Assembly has been installed before installing the Enhanced Printing PC Borad. Refer to page 274 and 275 to install the Parallel Port Interface Assembly.

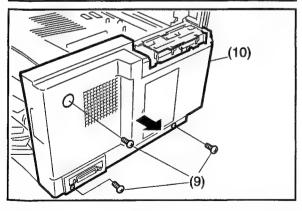
Before starting the installation, prepare the Master Firmware Card with the appropriate Optional Firmware. (See page 48)



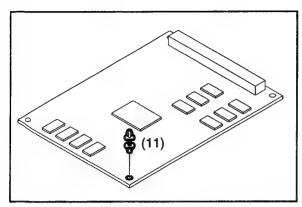
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.



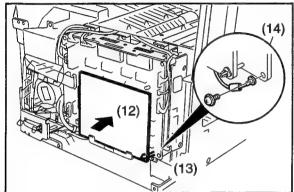
- (4) Open the Control Panel.
- (5) Remove 1 Screw.
- (6) Remove the Memory Card Cover.
- (7) Remove 4 Screws.
- (8) Remove the Sub Rear Cover.



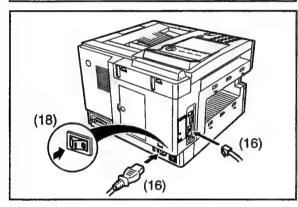
- (9) Remove 3 Screws.
- (10) Remove the Rear Cover.



(11) Insert the PCB Spacer into the hole on the Enhanced Printing PC Borad.



- (12) Connect the Enhanced Printing PC Borad to the CN55 on the FCB PC Board.
- (13) Secure the Enhanced Printing PC Borad by inserting the PCB Spacer into the hole on the FCB PC Board.
- (14) Remove 1 Screw on the FCB PC Board and connect the GND Cable with the screw.



- (15) Re-install the Rear Cover.
- (16) Re-connect the Power Cord and the Telephone Line Cable.
- (17) Insert the Master Firmware Card that you have prepared into the machine.
- (18) Turn the Power Switch to the ON (I) position.
- (19) Perform the Service Mode 9-1 (Firmware Update). (See page 186)
- (20) Perform the Service Mode 6 (Parameter Initialization).
- (21) Turn the Power Switch to the OFF (O) position.
- (22) Remove the Master Firmware Card.
- (23) Re-install the remaining Covers.
- (24) Turn the Power Switch to the ON (I) position.

9.7 Installing G3 Communication Port Kit (UE-407019)

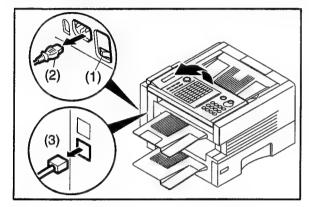
1. Contents

Qty.	Description	Part No.	Remarks
1	G3 PCB Assembly	DZEC101274	-
2	Screw. 3x8	XYN3+F8	-
1	Ribbon Cable	DZFP000709	-
2	Screw. 3x8	DZPB000007	Silver Colored Screw

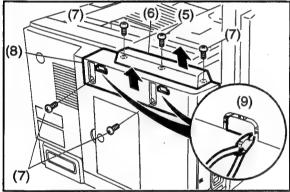
2. Installation

Note:

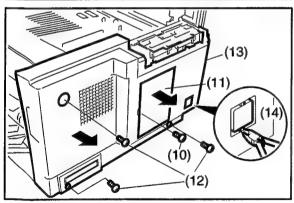
Before starting the installation, prepare the Master Firmware Card with the appropriate Optional Firmware. (See page 48)



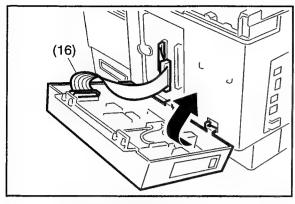
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.
- (4) Open the Control Panel.



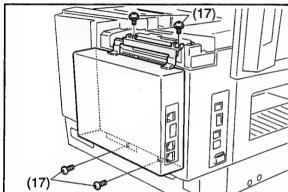
- (5) Remove 1 Screw.
- (6) Remove the Memory Card Cover.
- (7) Remove 4 Screws.
- (8) Remove the Sub Rear Cover.
- (9) Break off the protective tabs on the Sub Rear Cover.



- (10) Remove 1 Screw.
- (11) Remove the Rear Access Cover.
- (12) Remove 3 Screws.
- (13) Remove the Rear Cover.
- (14) Break off the protective tab.
- (15) Re-install the Rear Cover.



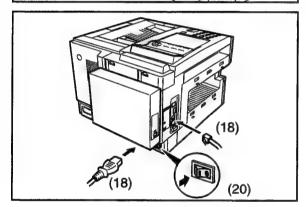
(16) Connect one end of the Ribbon Cable to CN50 on the FCB PC Board and the other to the G3 PC Board.



(17) Secure the G3 PCB Assembly using the 4 Screws which came with the kit.

Note:

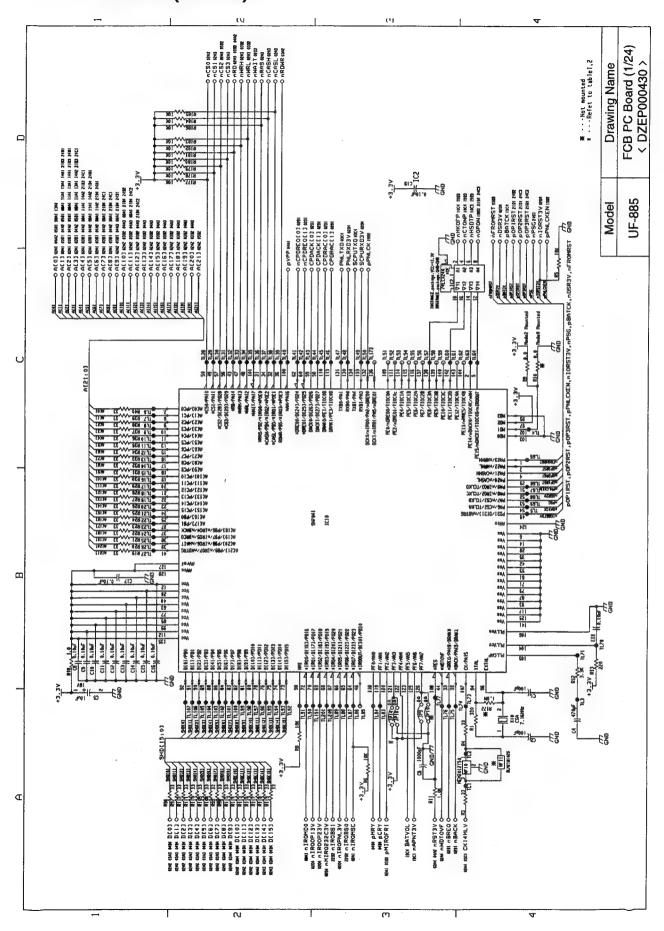
2 screws (XYN3+F8) on the top and the other 2 screws (DZPB000007) on the bottom as illustrated on the left.

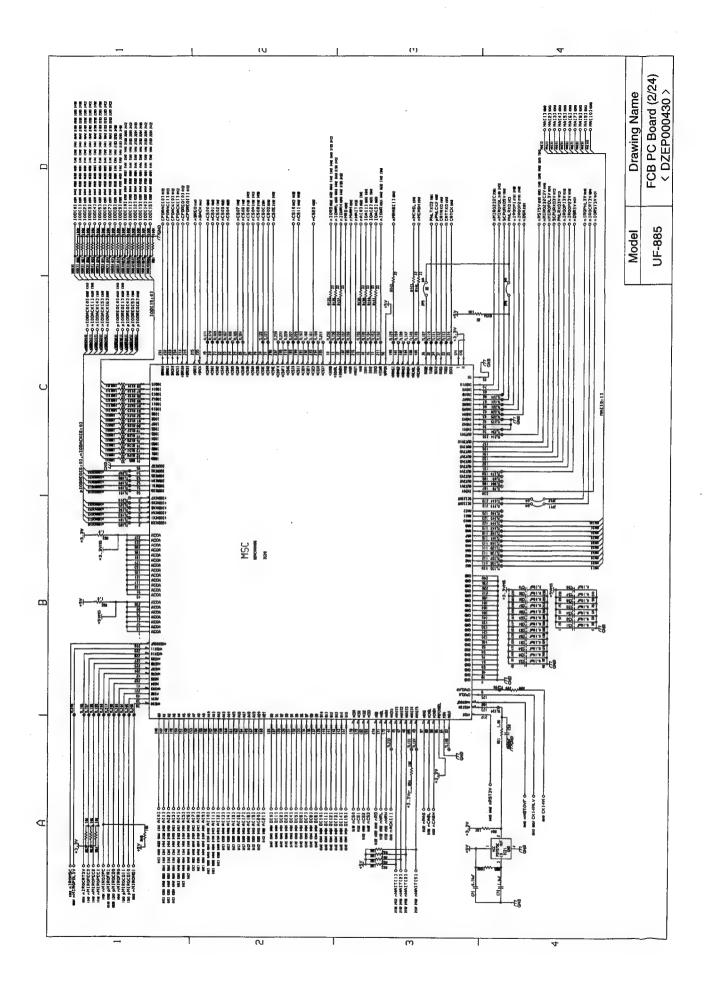


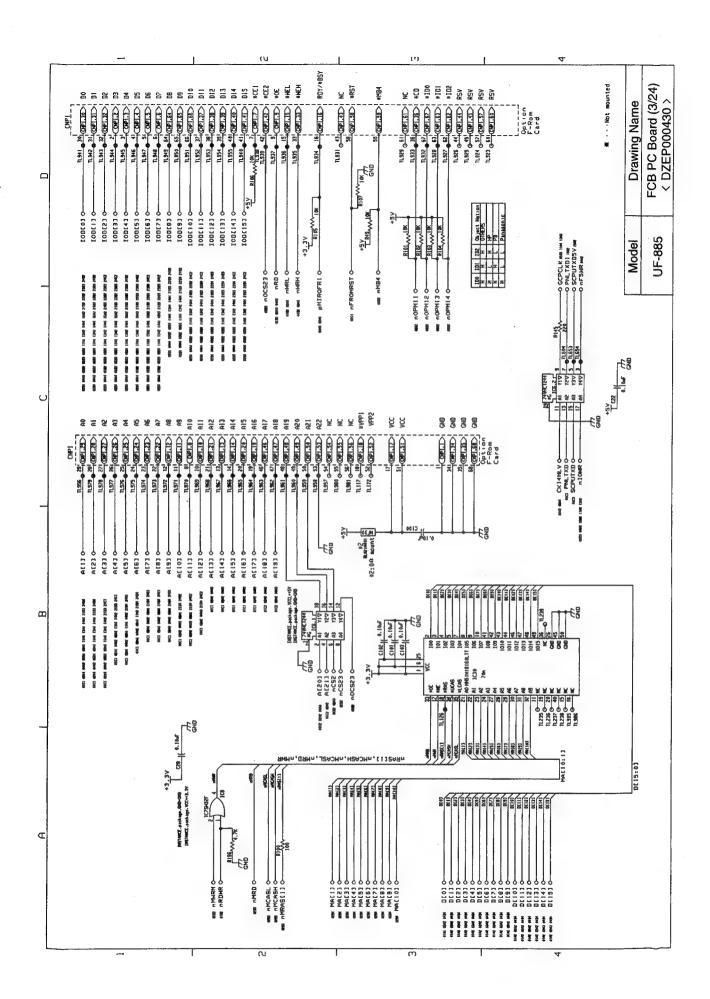
- (18) Re-connect the Power Cord and the Telephone Line Cable.
- (19) Insert the Master Firmware Card that you have prepared into the machine.
- (20) Turn the Power Switch to the ON (I) position.
- (21) Perform the Service Mode 9-1 (Firmware Updale). (See page 186)
- (22) Perform the Service Mode 6 (Parameter Initialization).
- (23) Turn the Power Switch to the OFF (O) position.
- (24) Remove the Master Firmware Card.
- (25) Re-install the remaining Covers.
- (26) Turn the Power Switch to the ON (I) position.

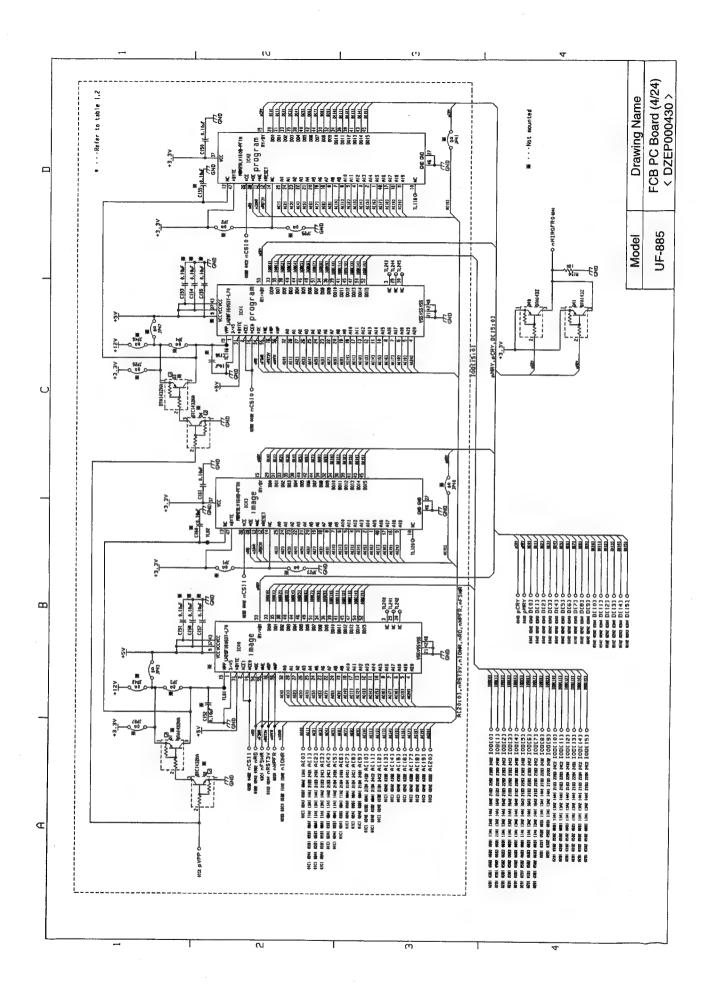
10 Schematic Diagram

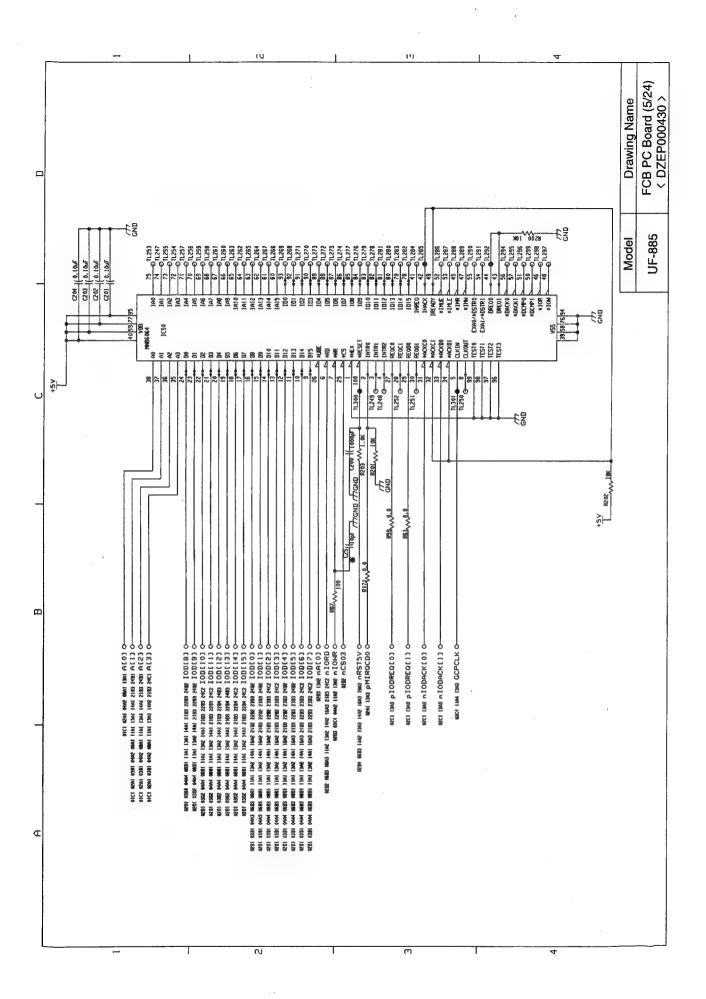
10.1 FCB PC Board (UF-885)

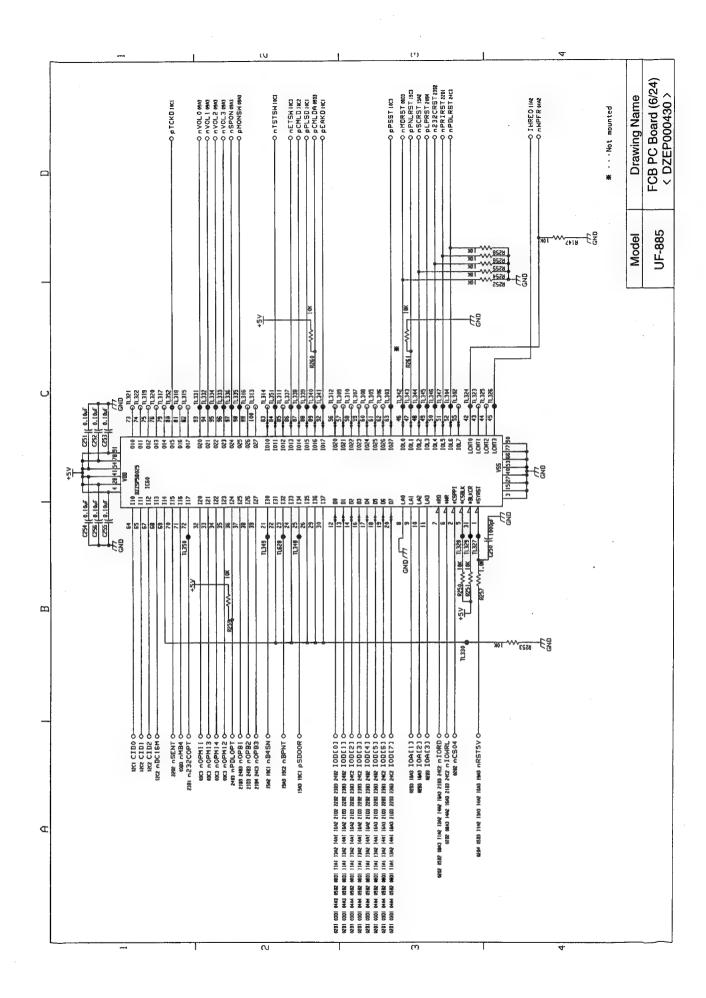


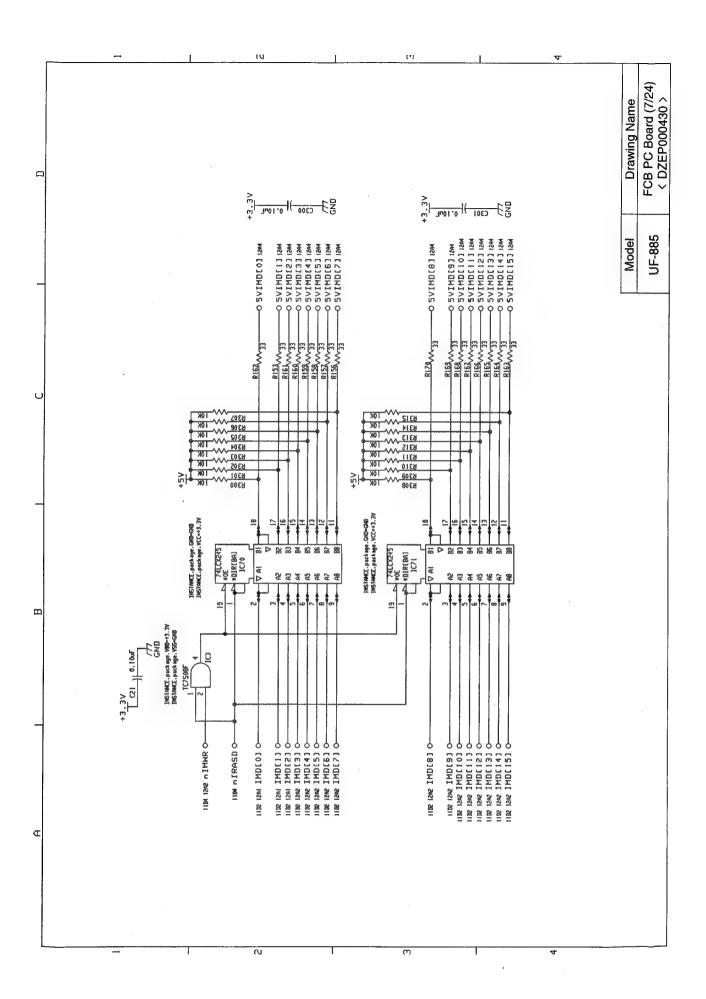


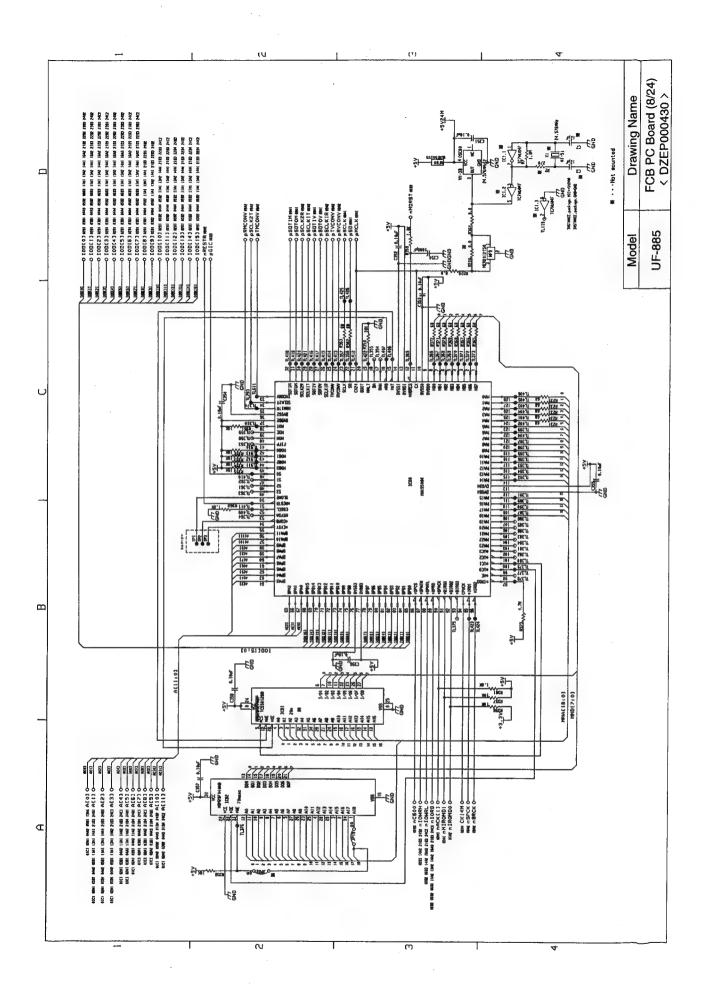


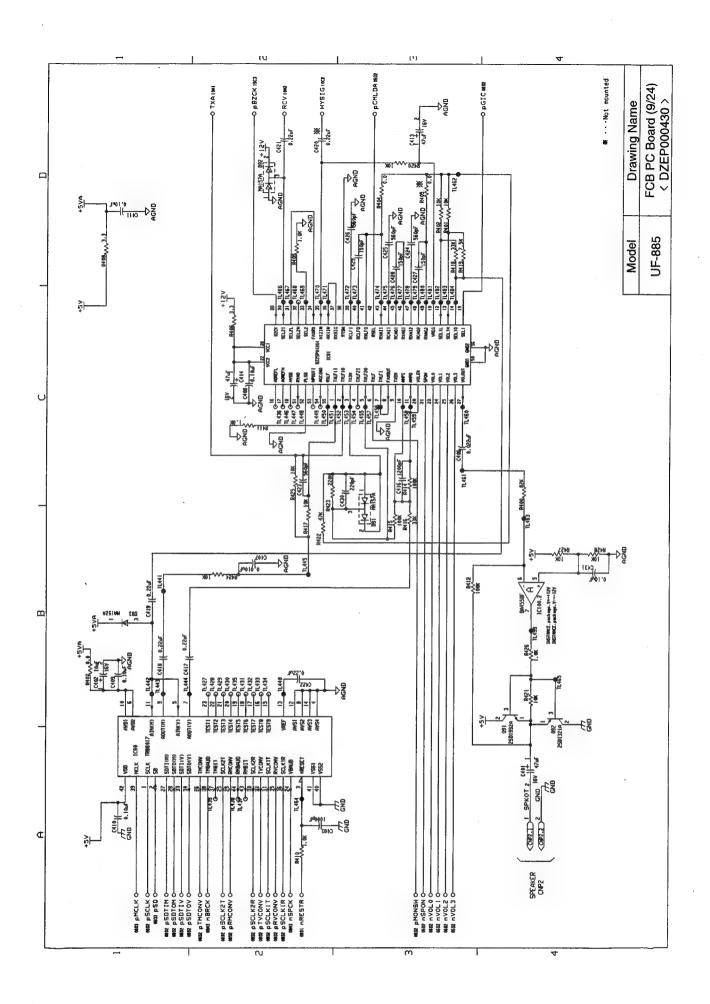


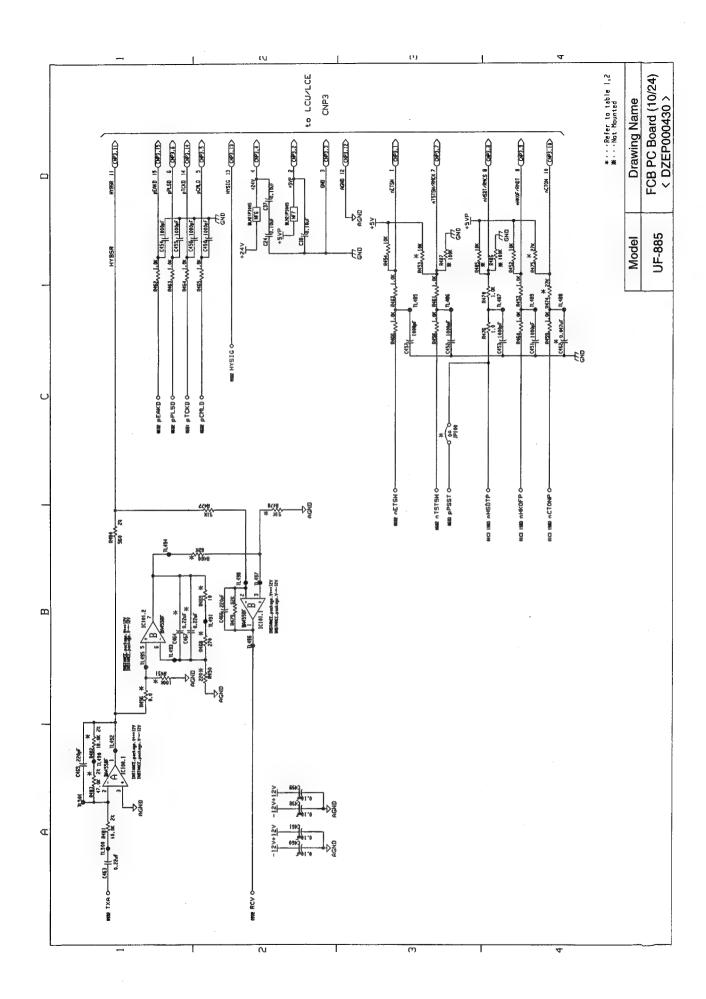


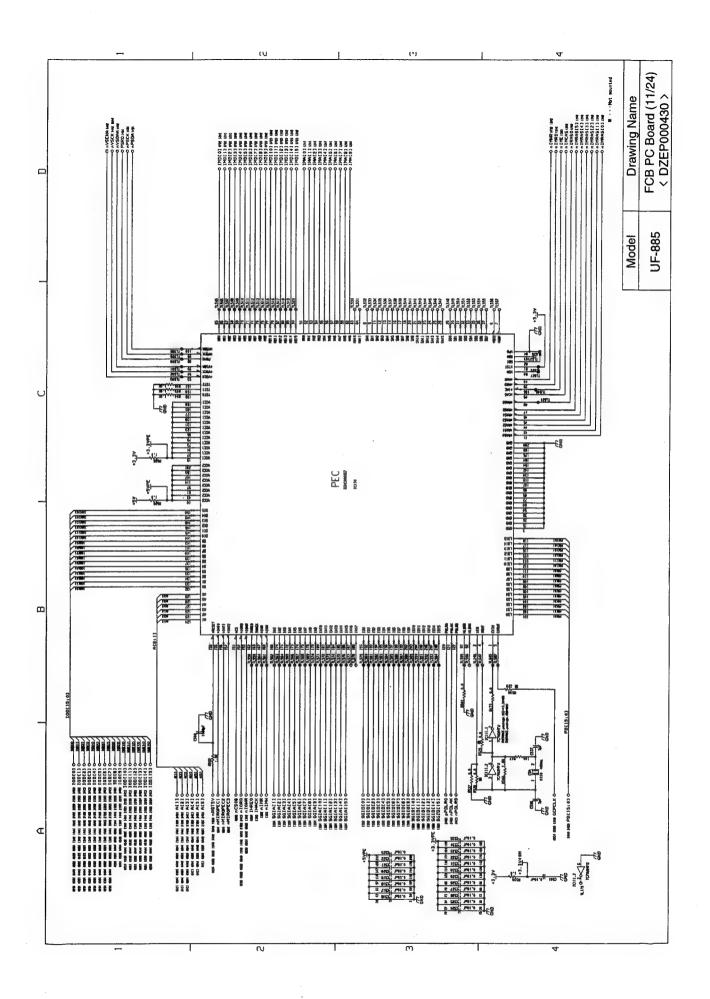


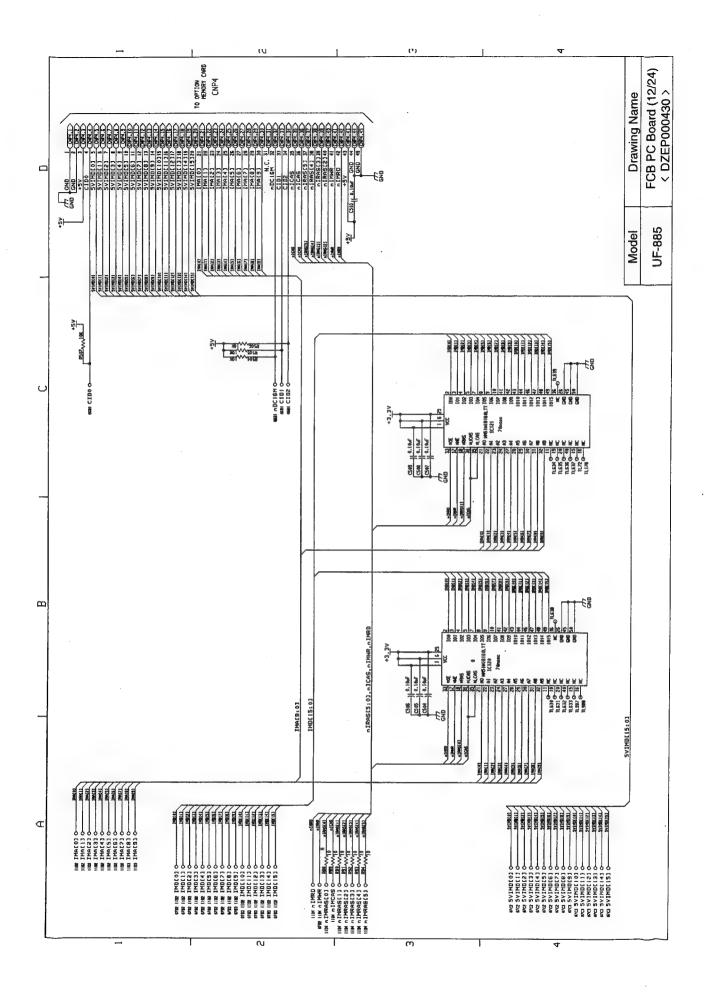


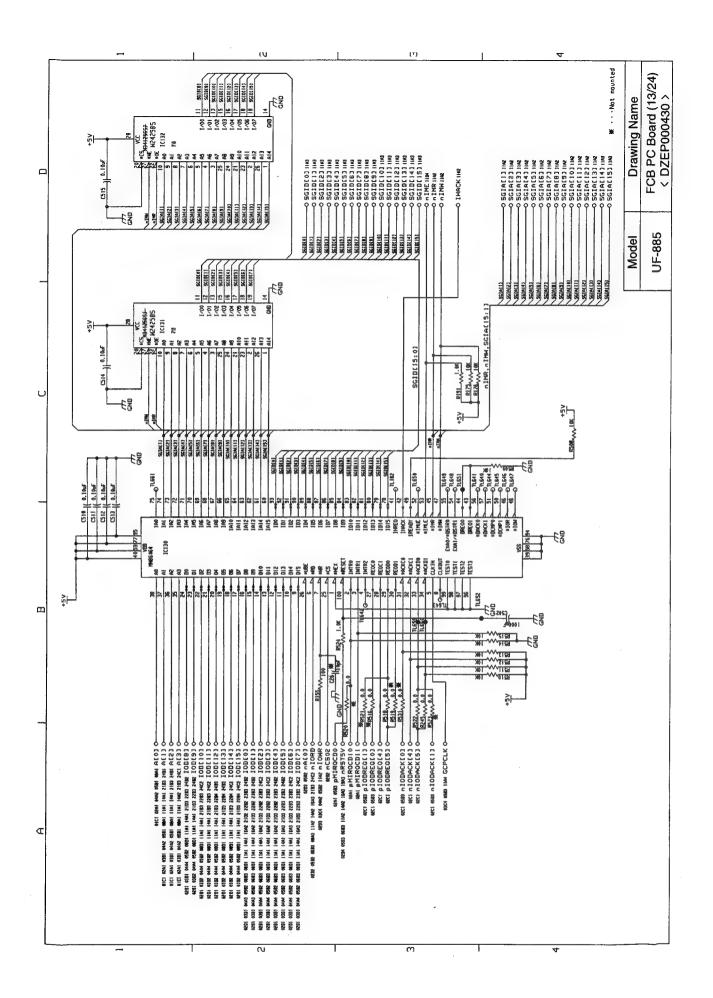


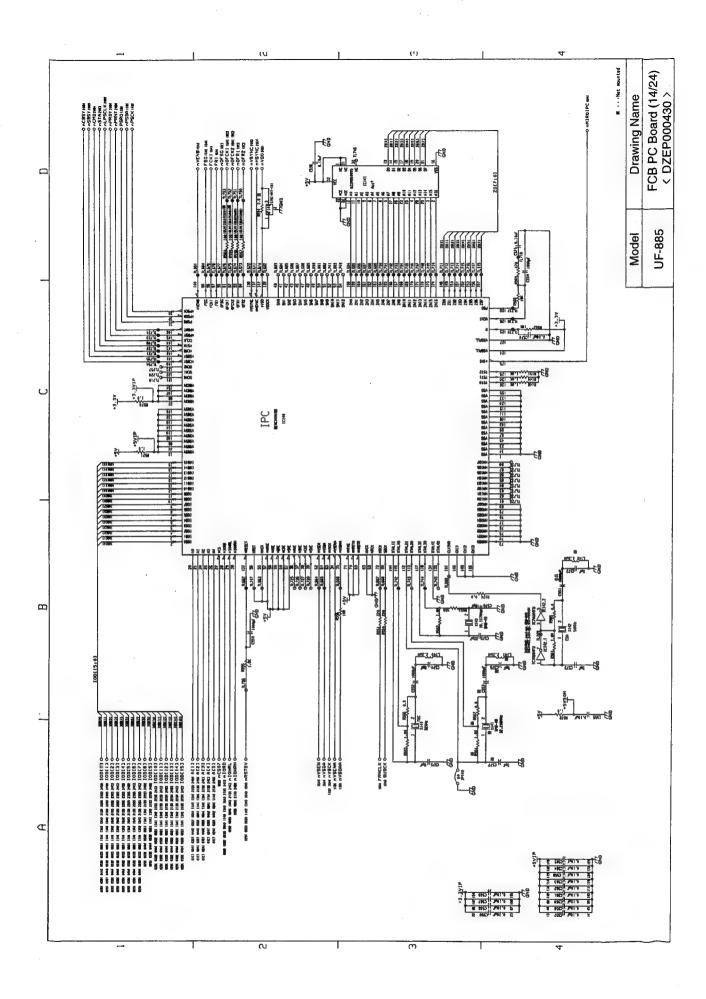


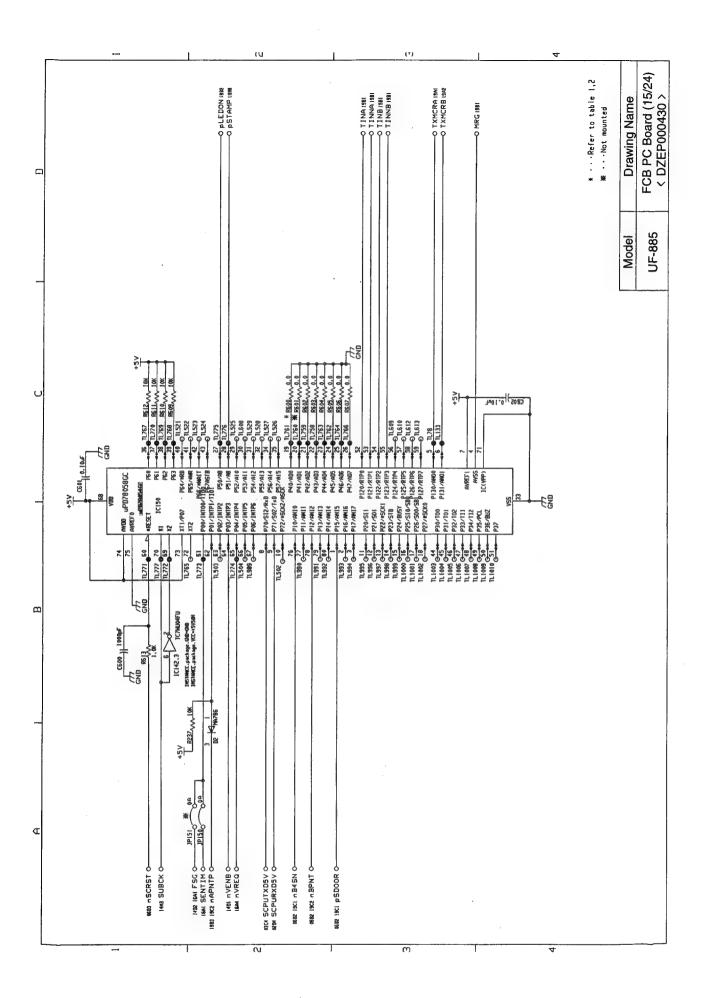


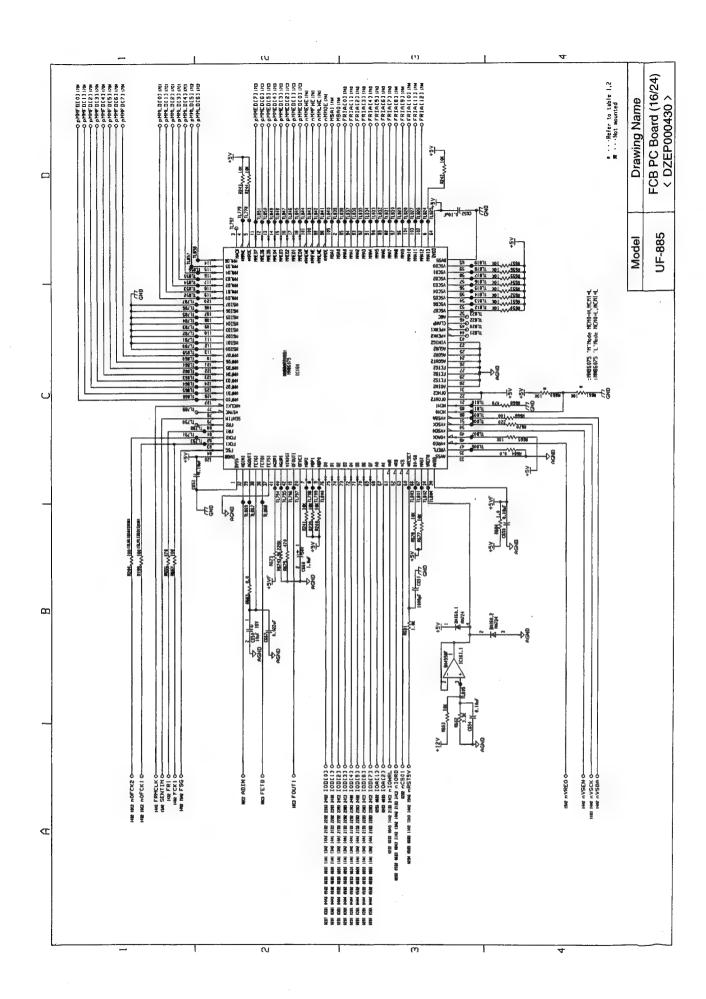


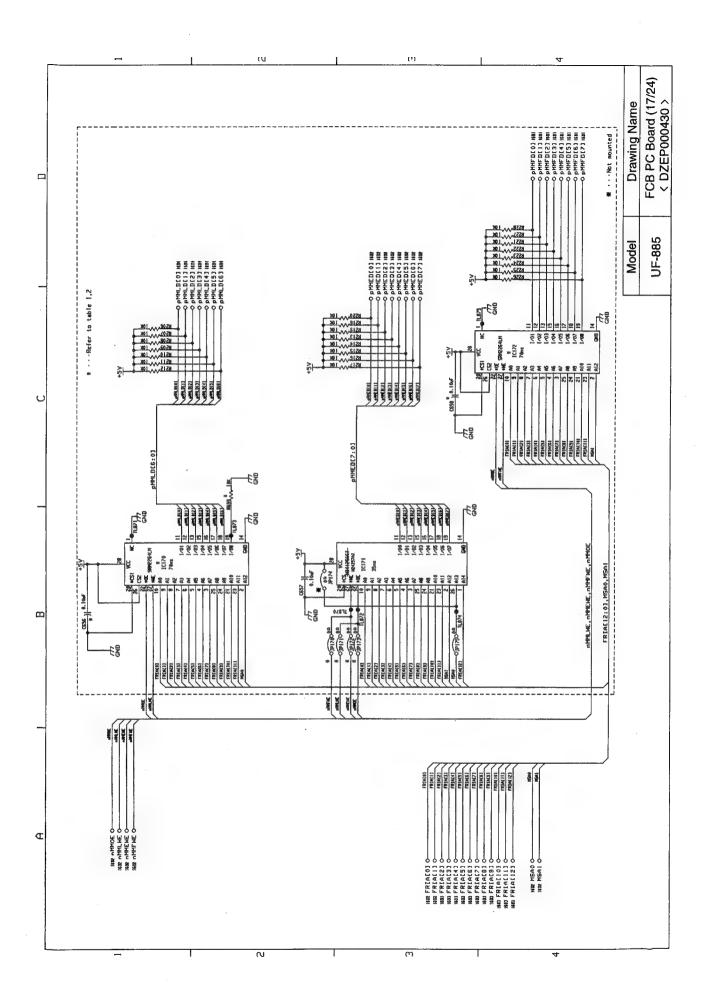


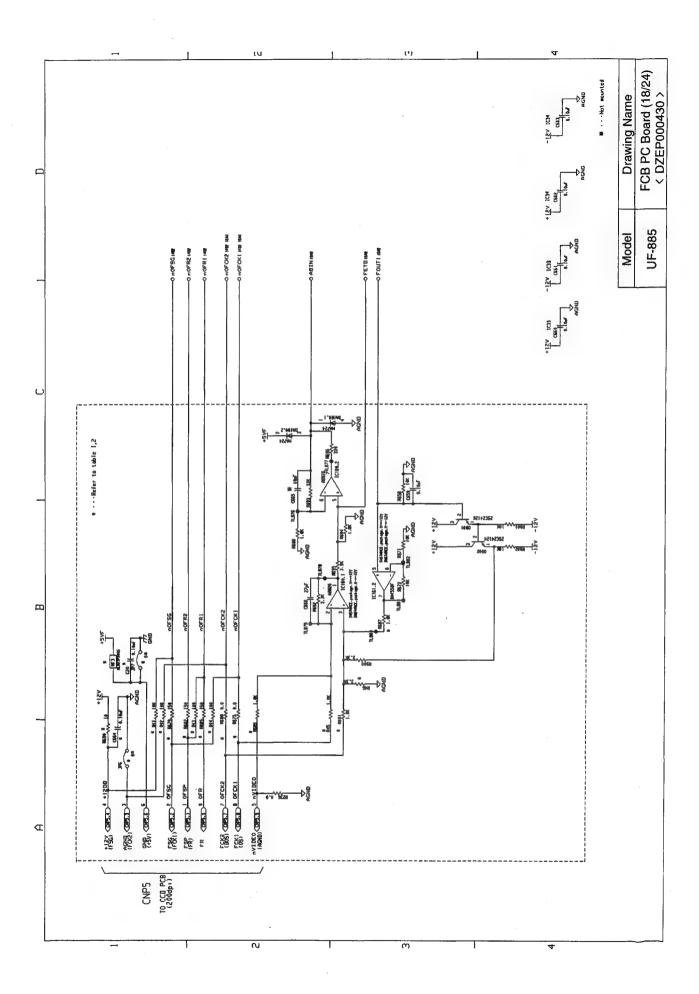


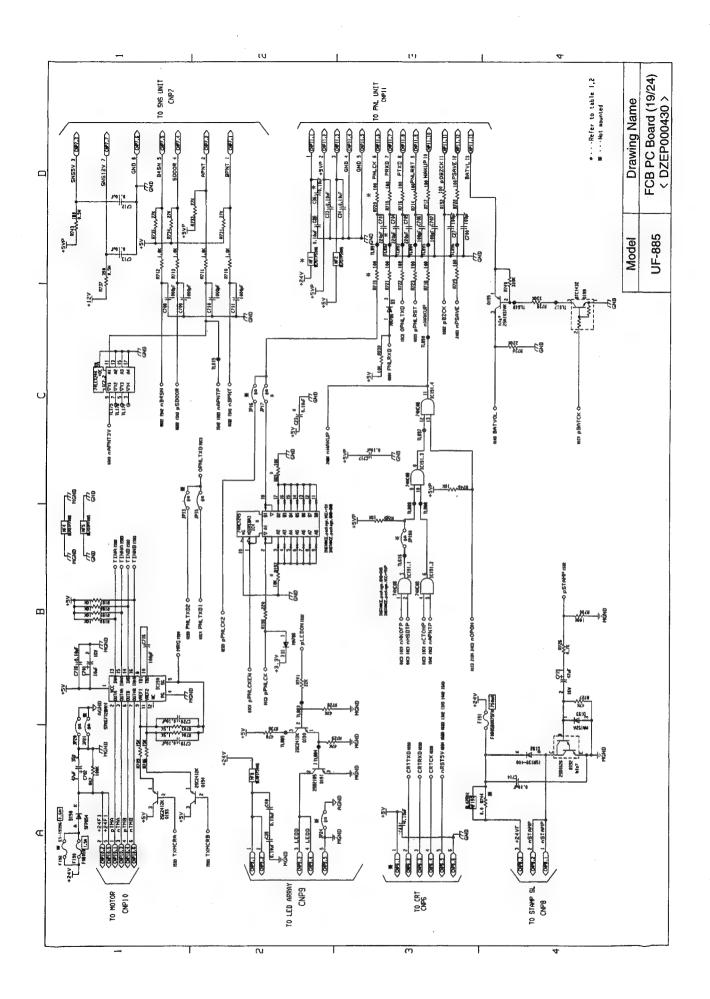


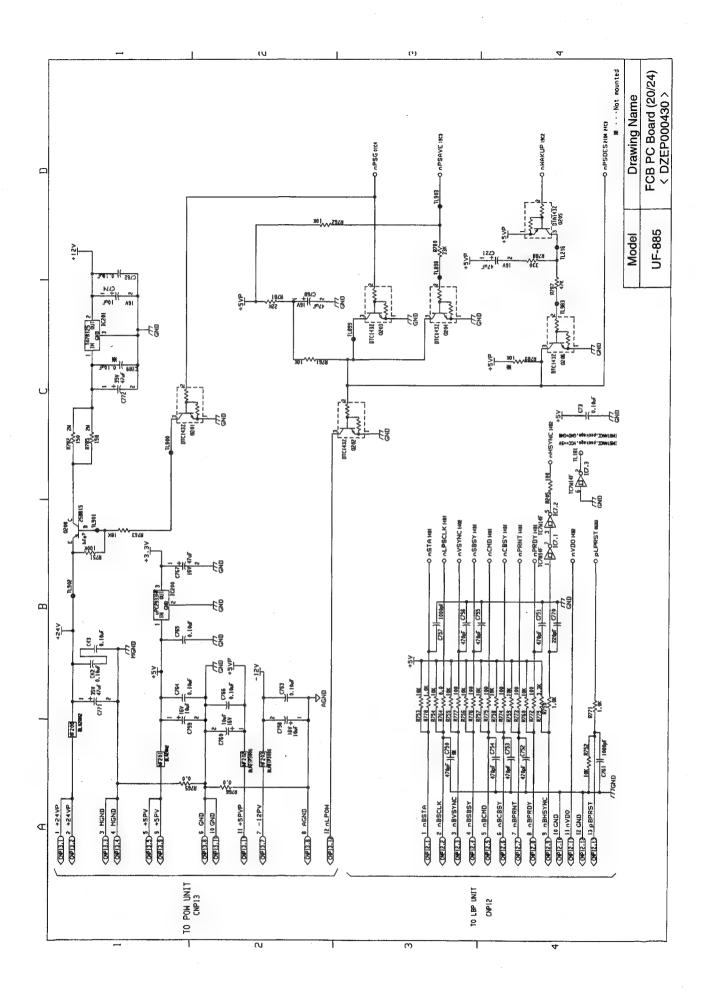


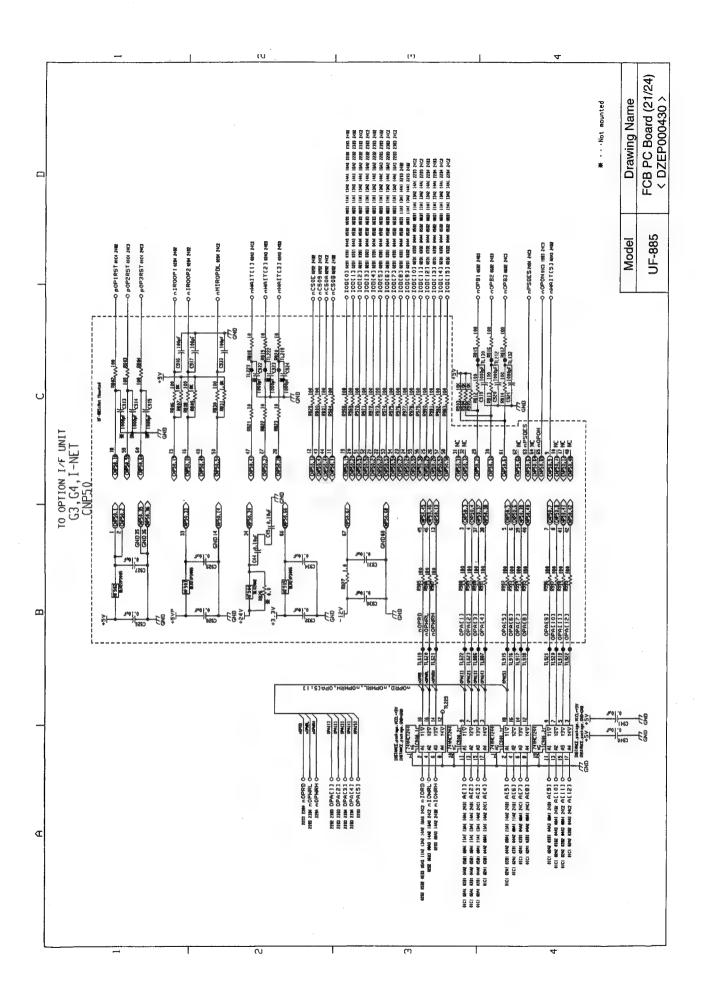


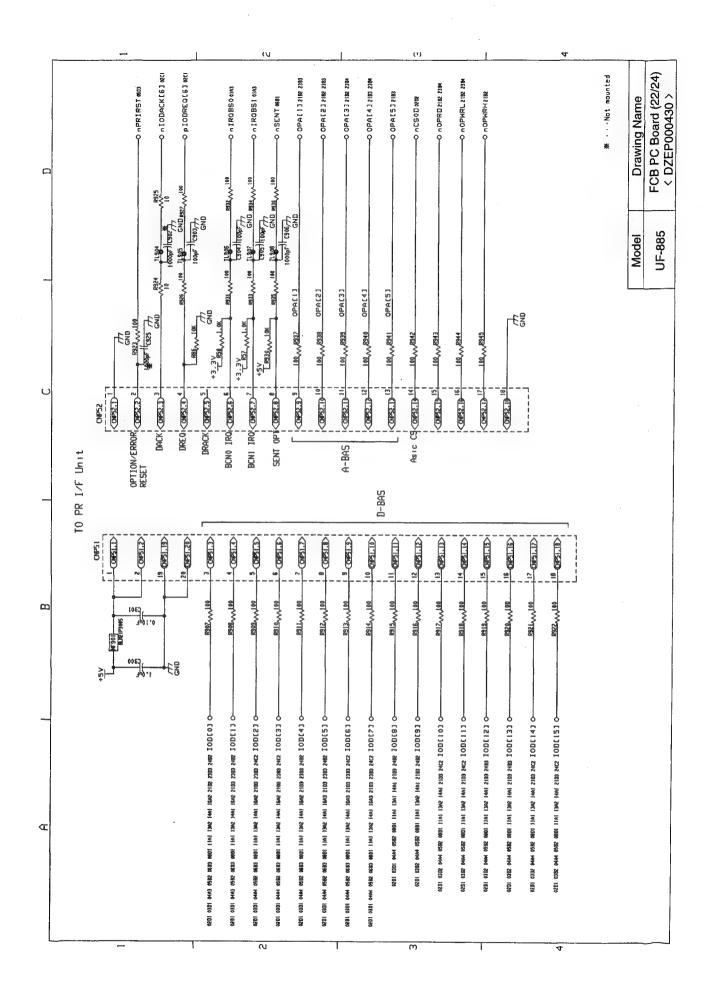


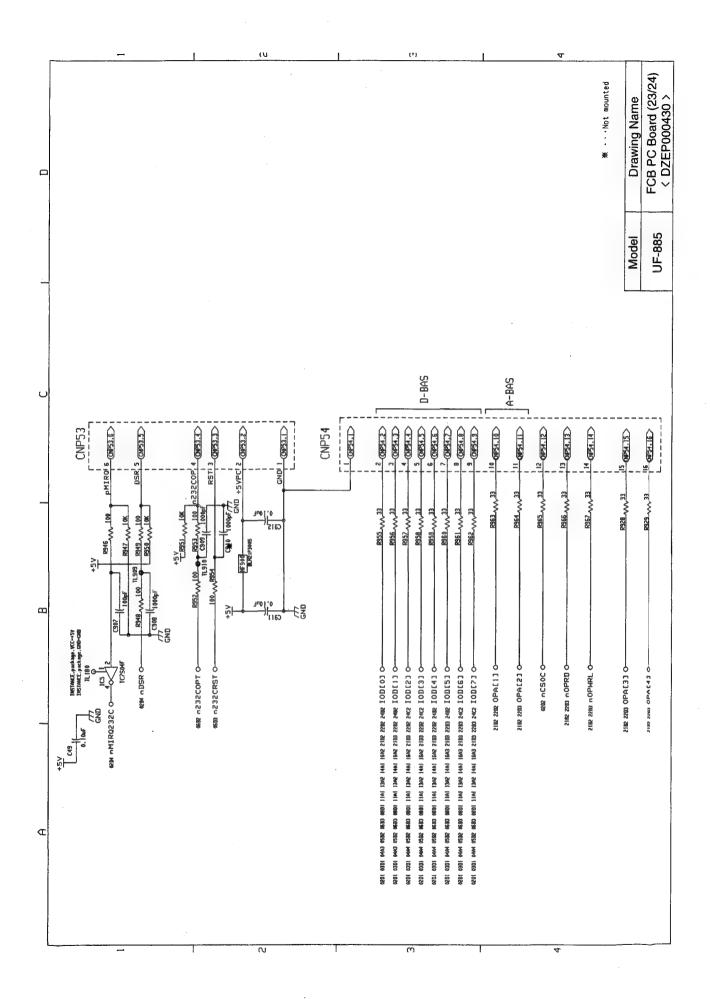


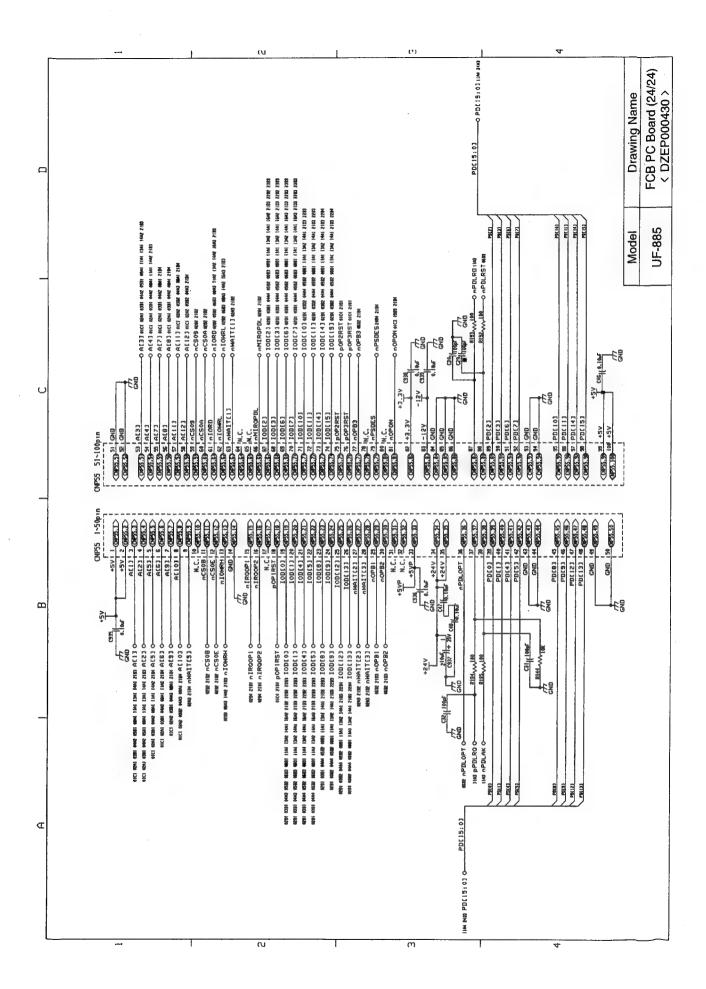




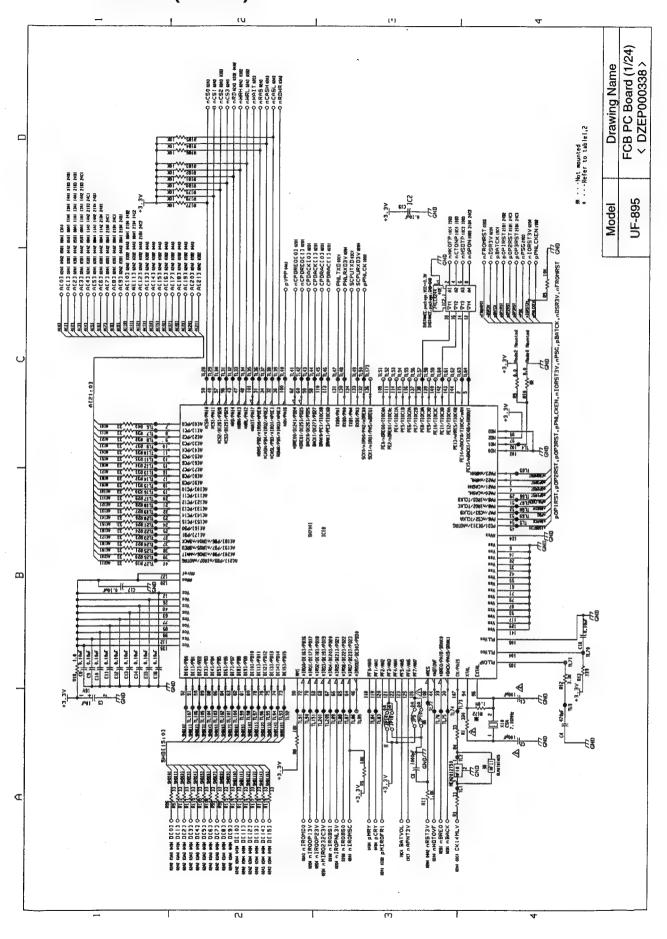


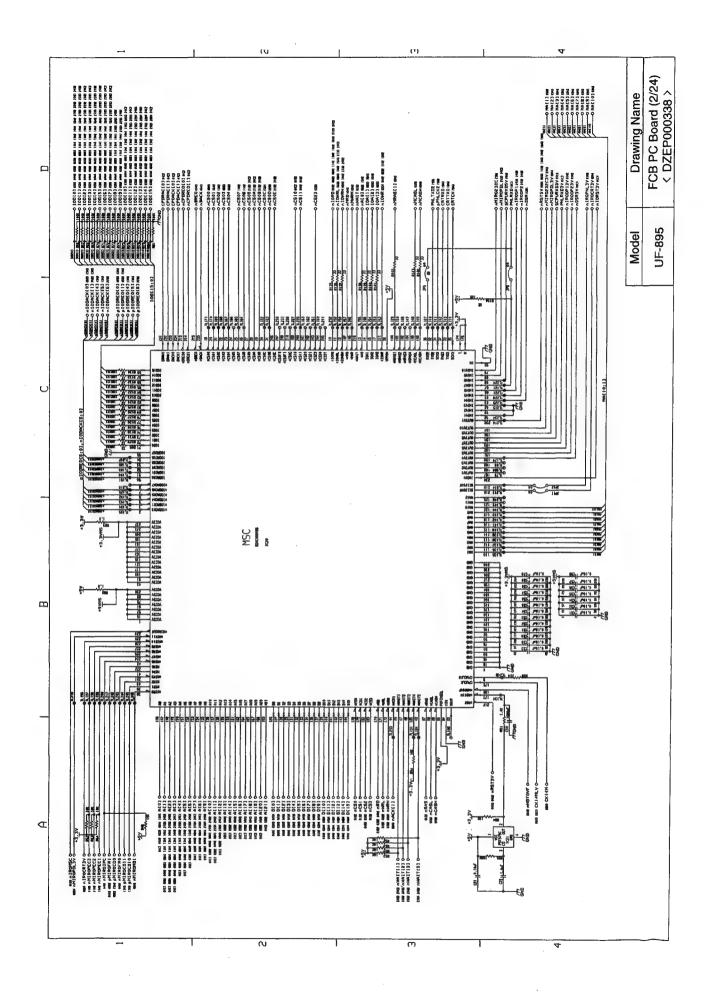


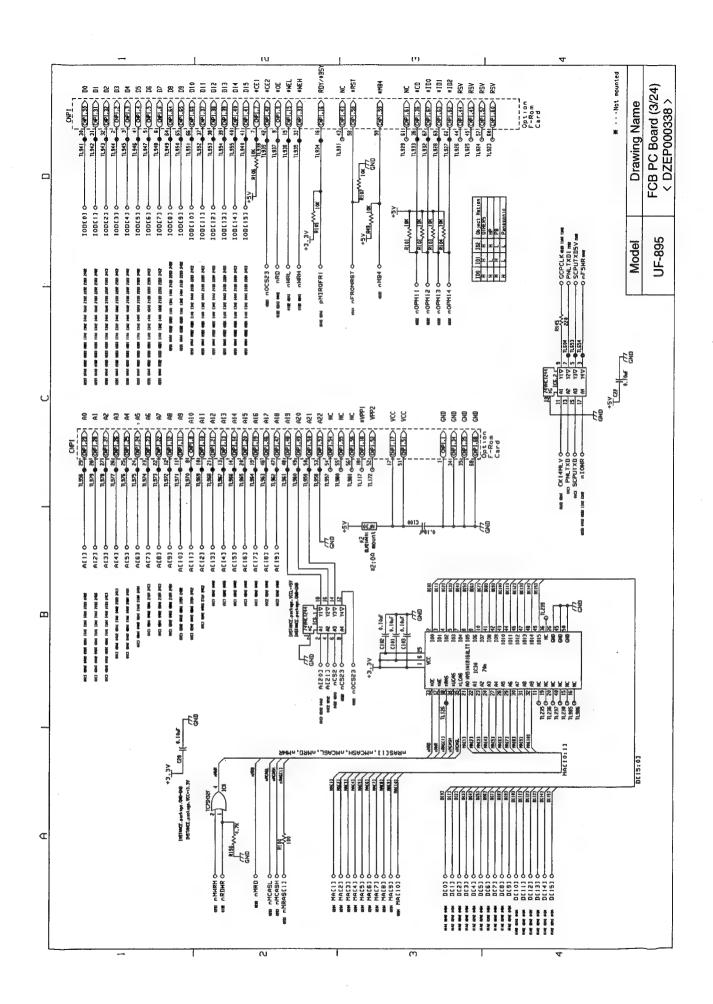


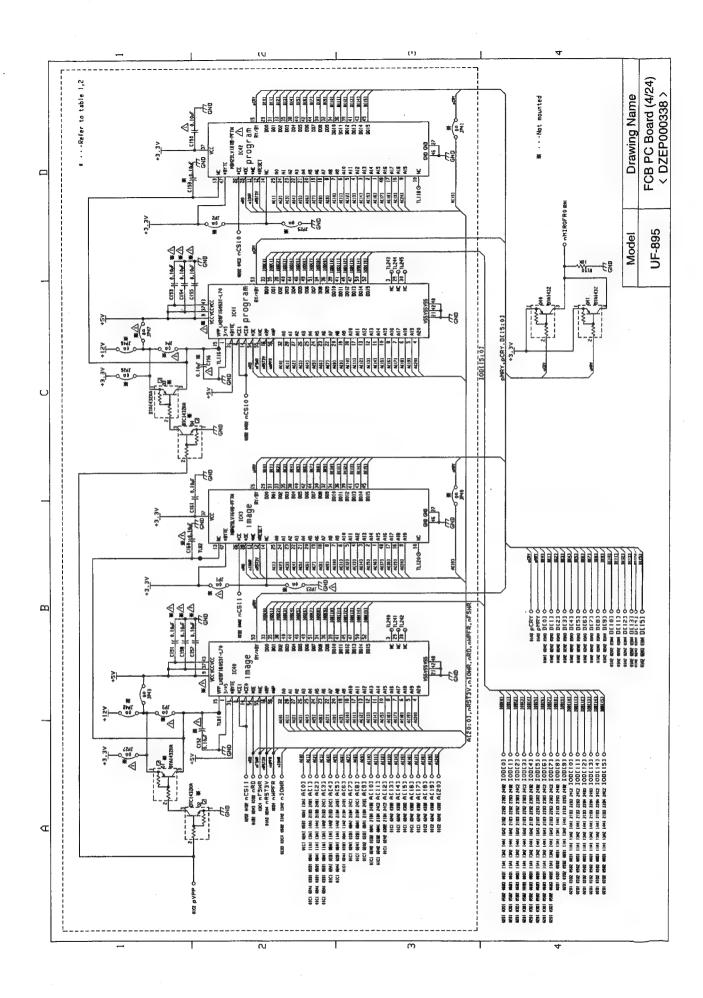


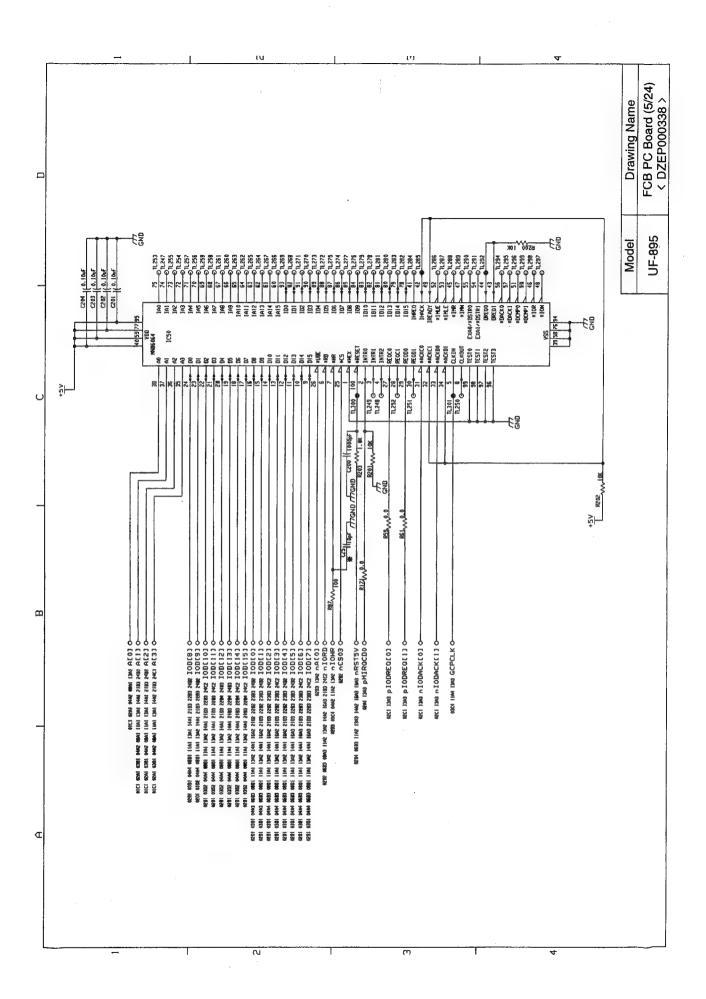
10.2 FCB PC Board (UF-895)

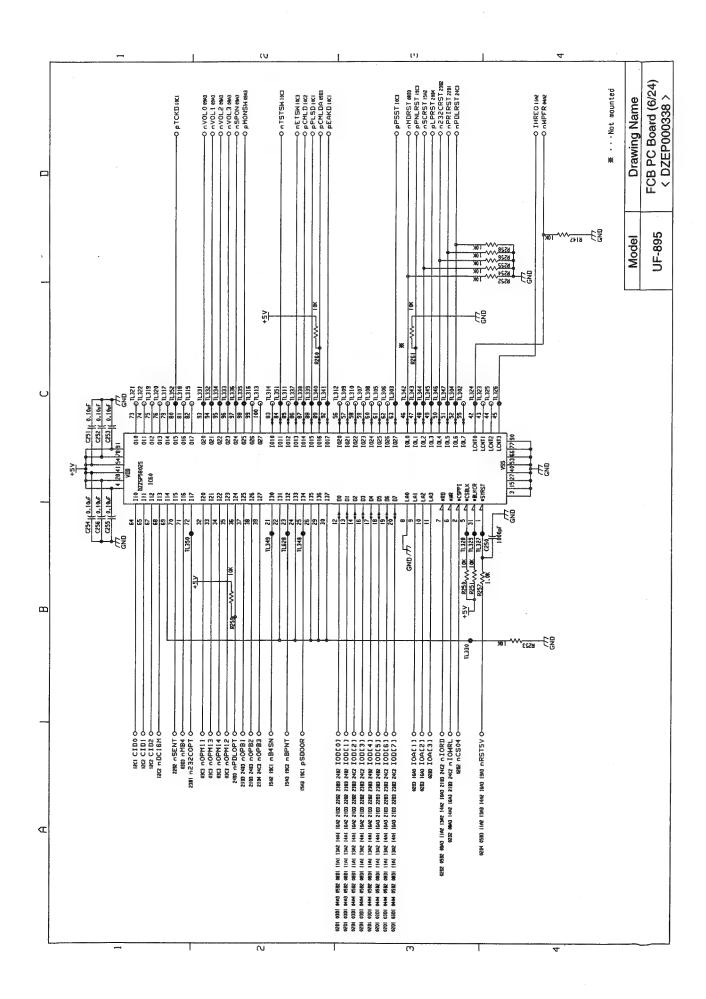


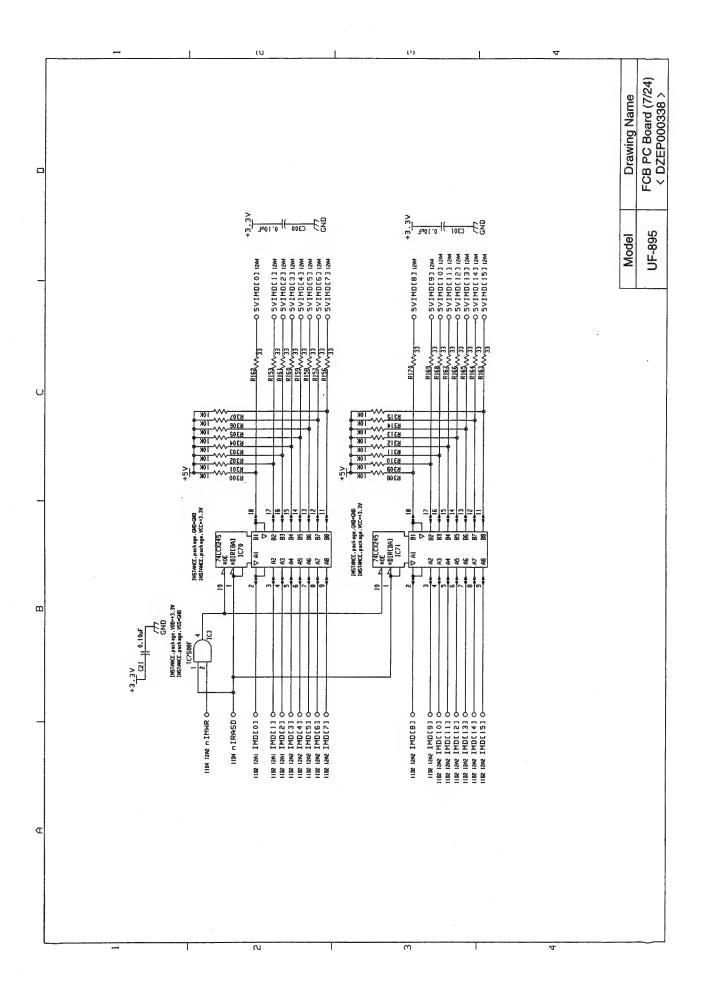


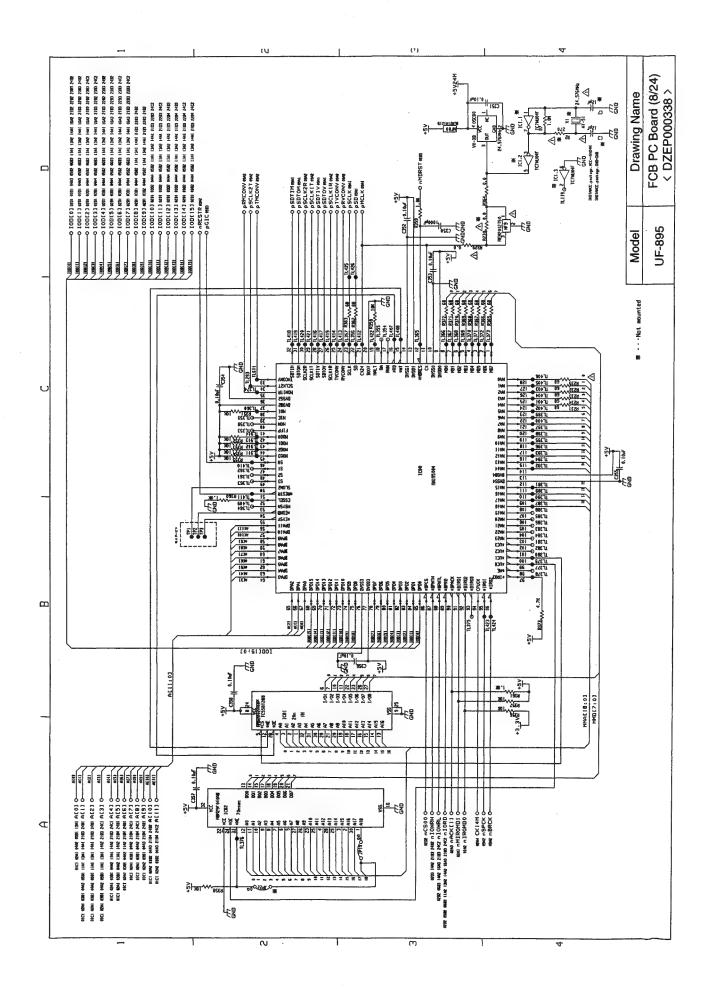


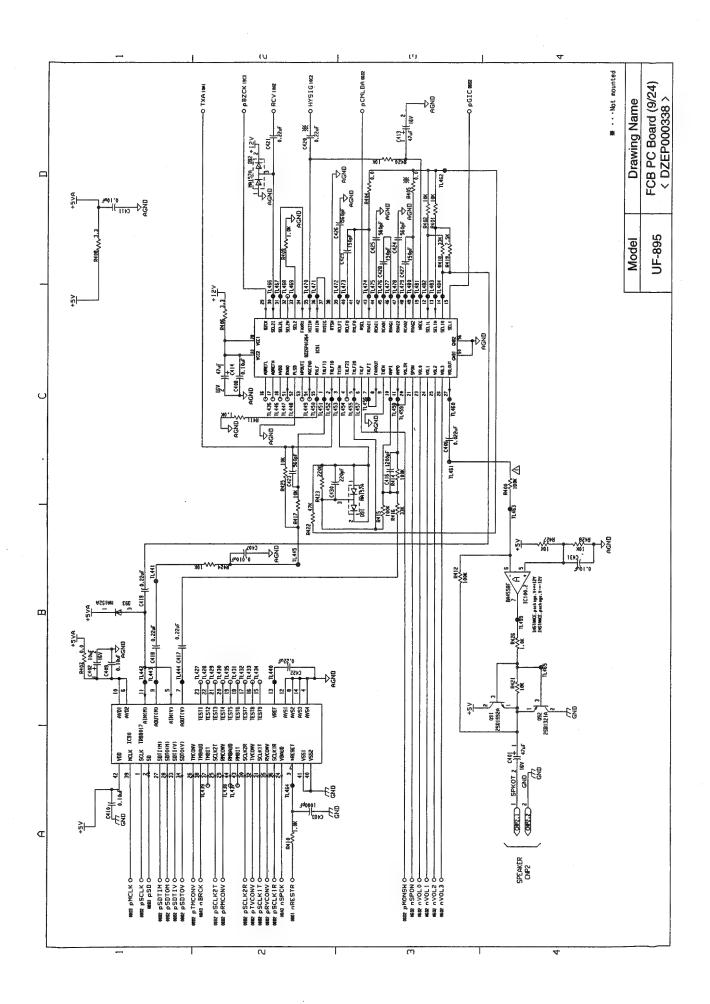


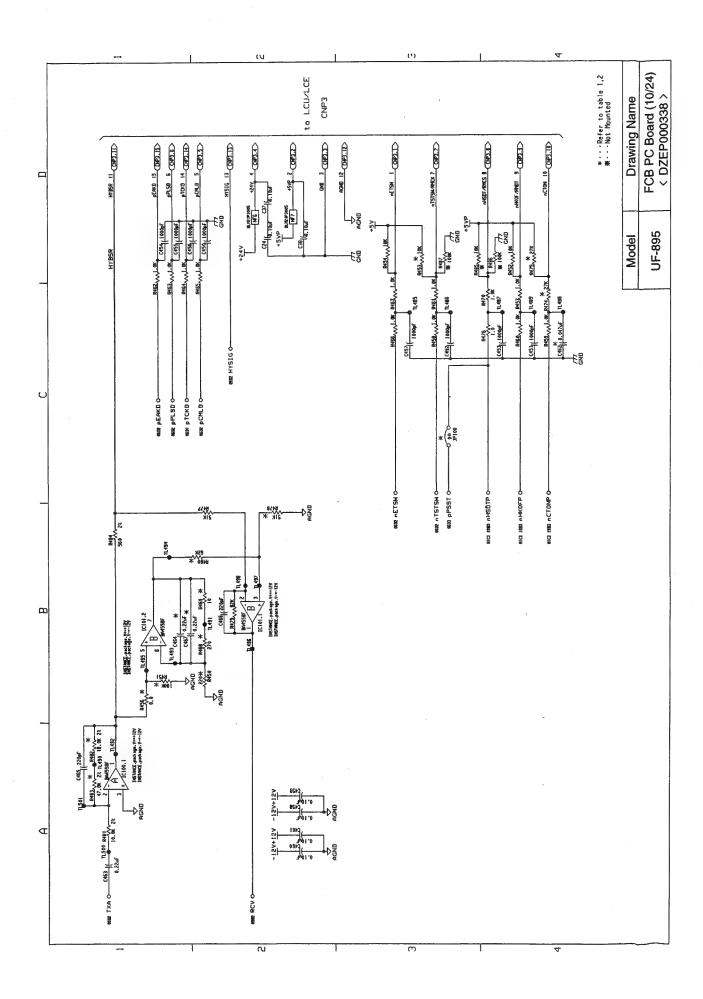


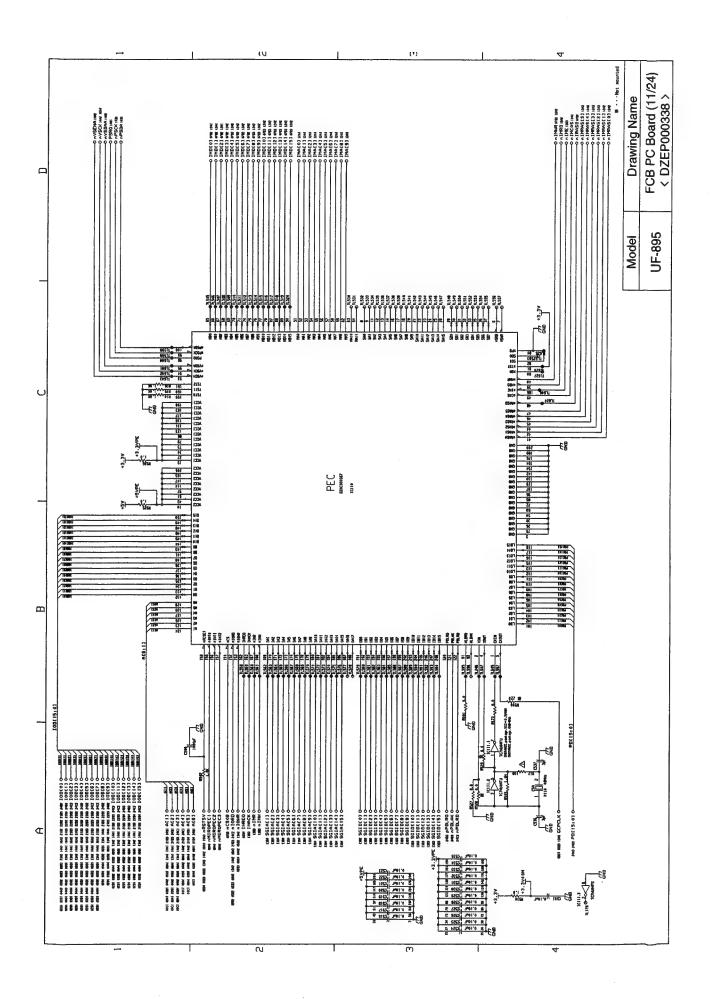


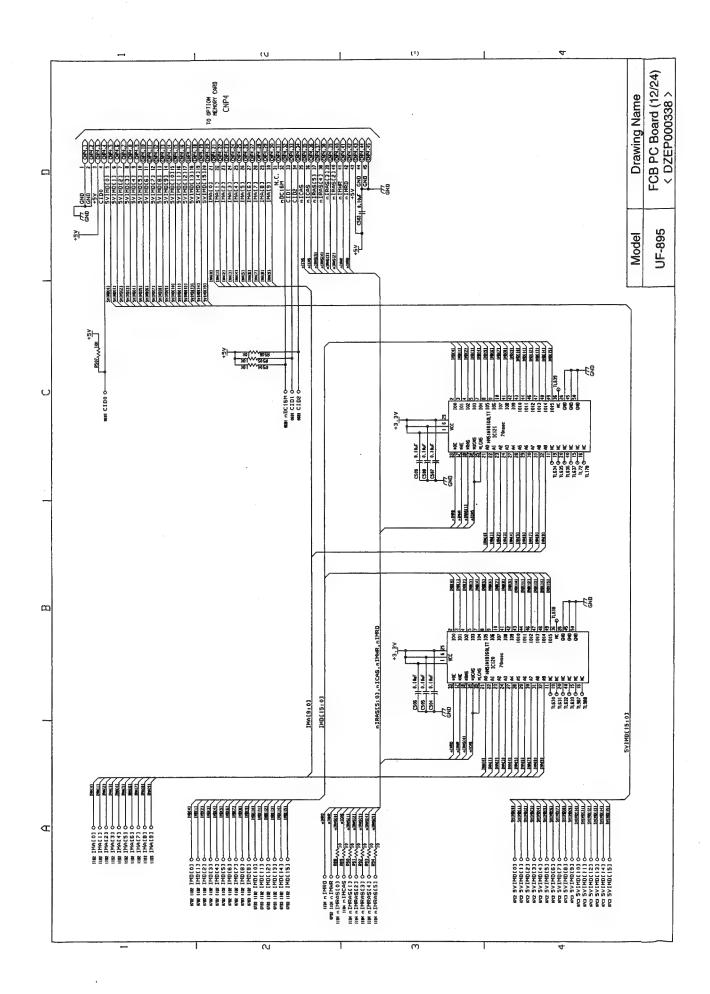


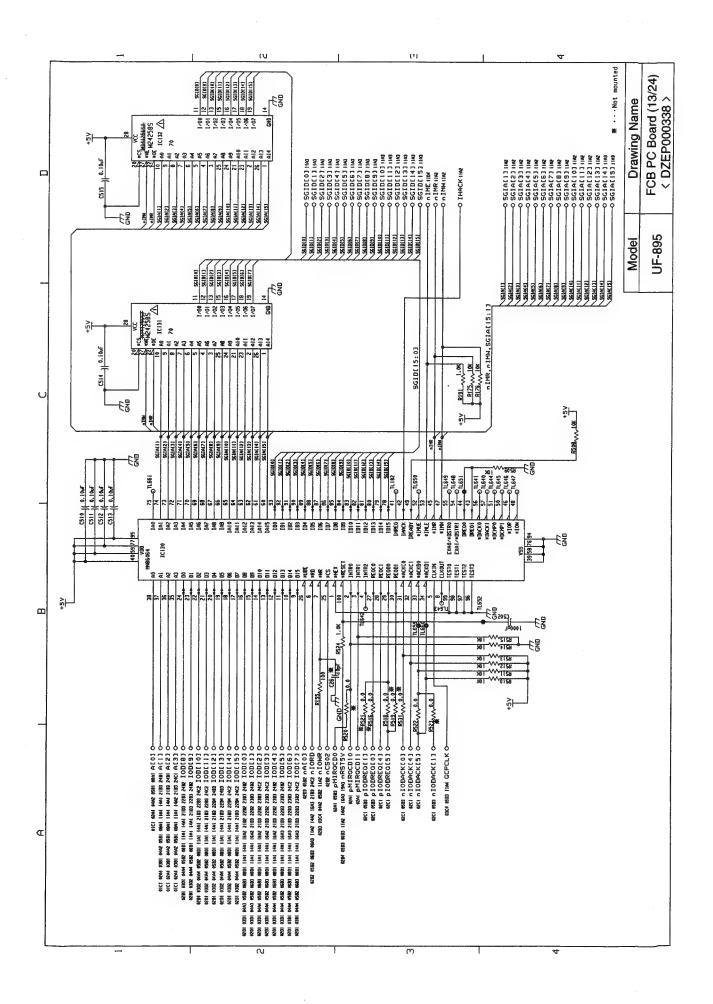


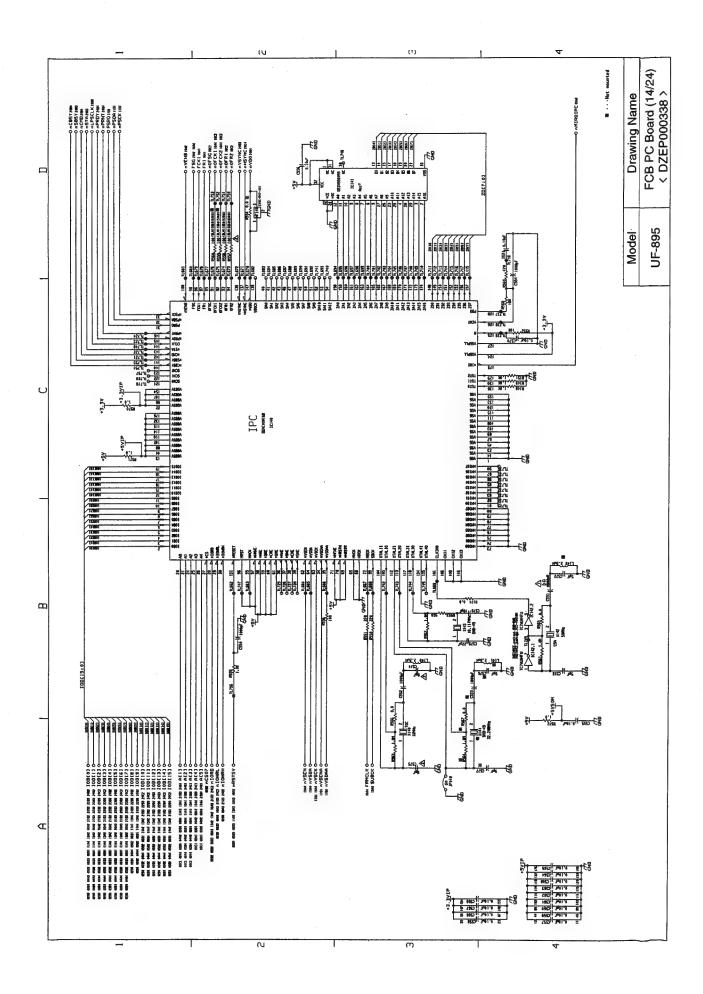


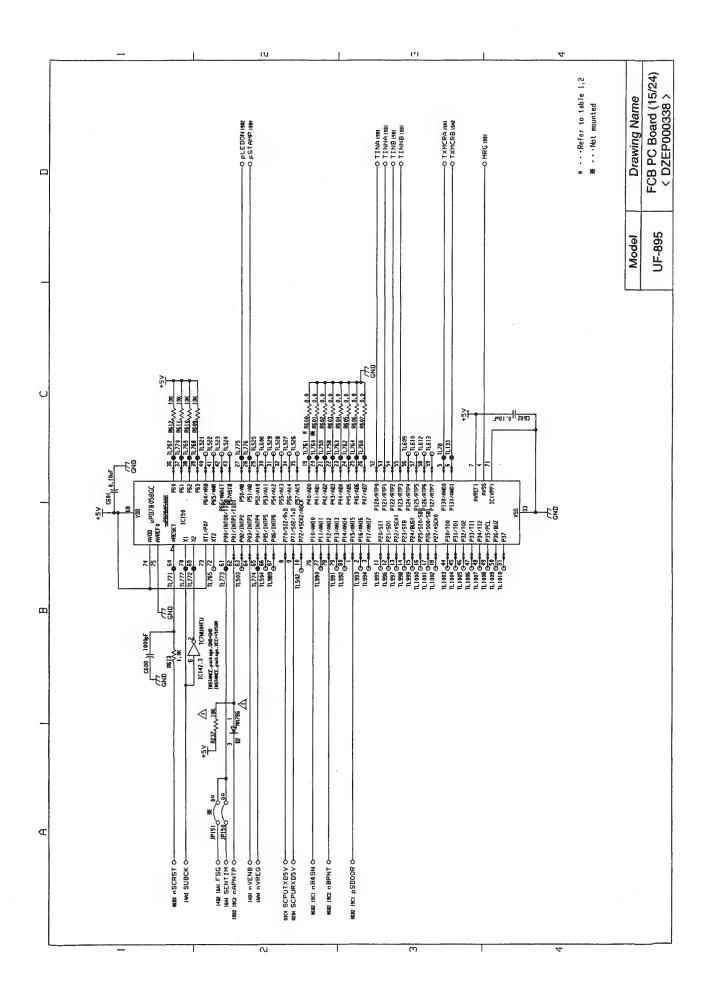


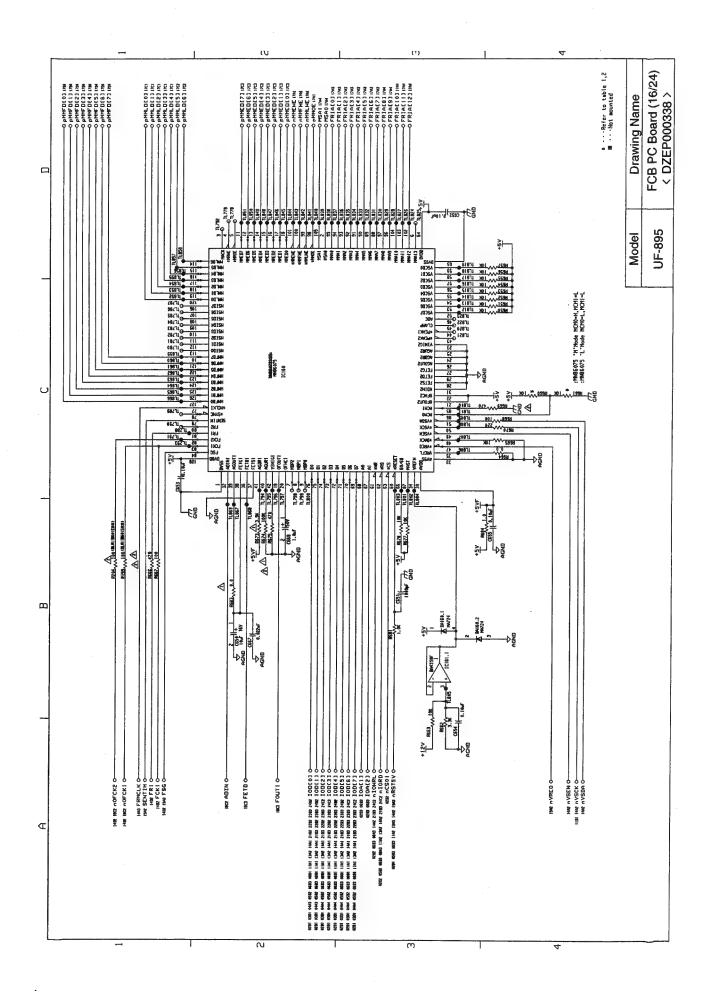


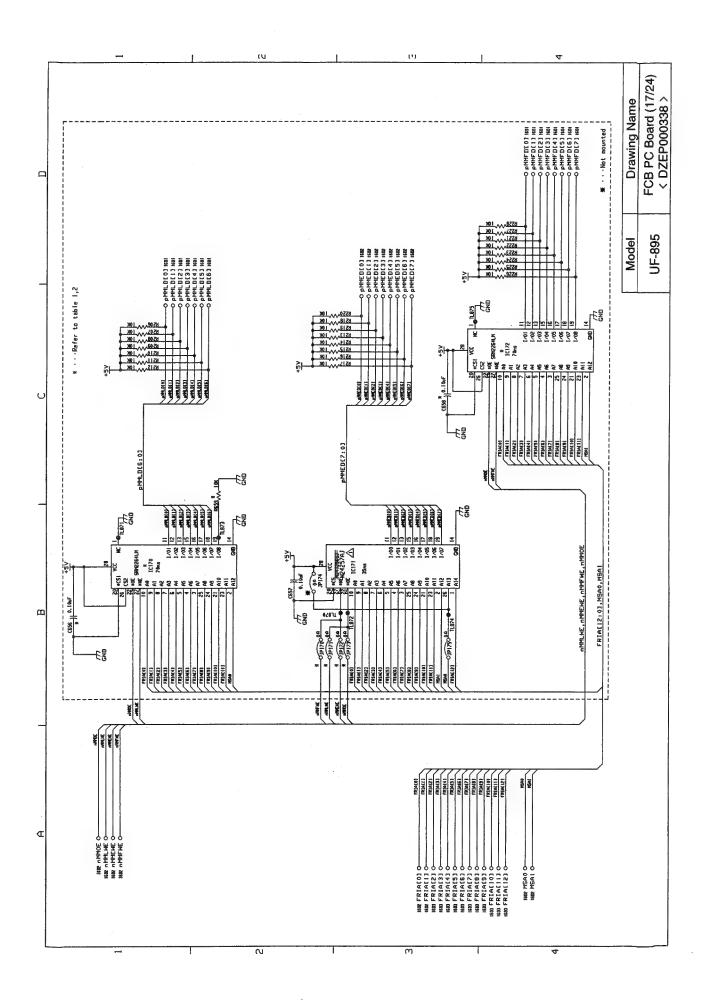


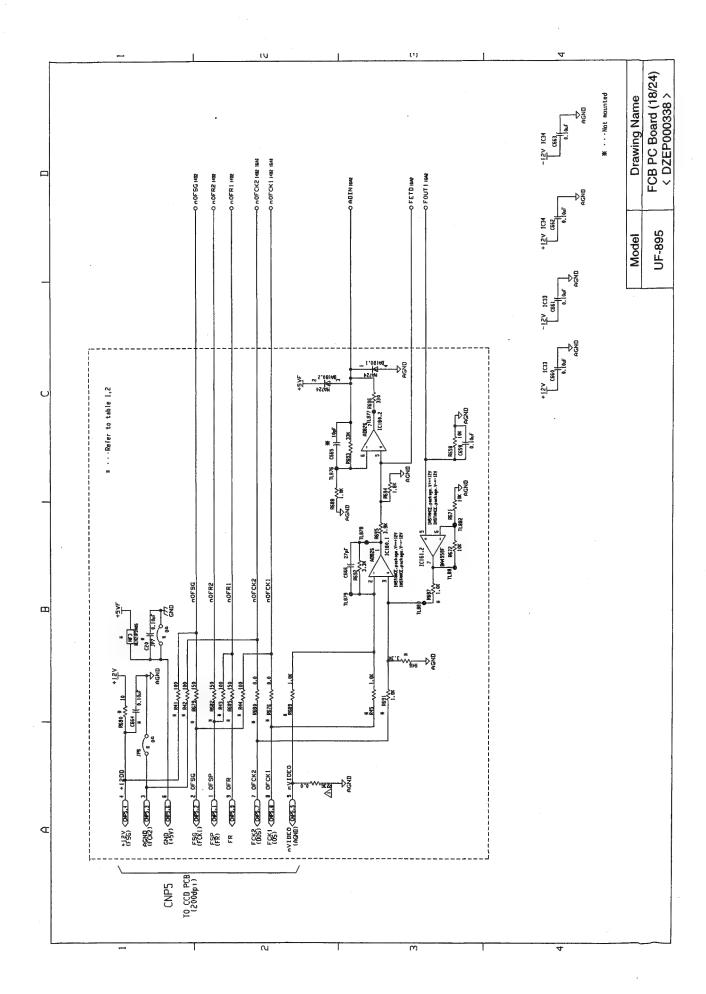


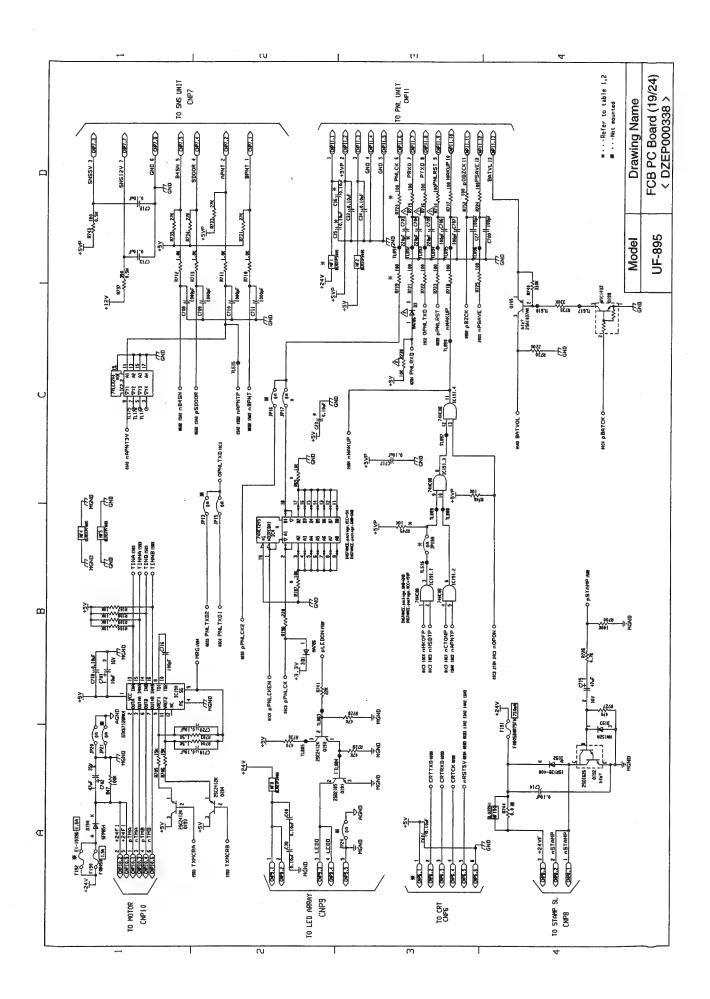


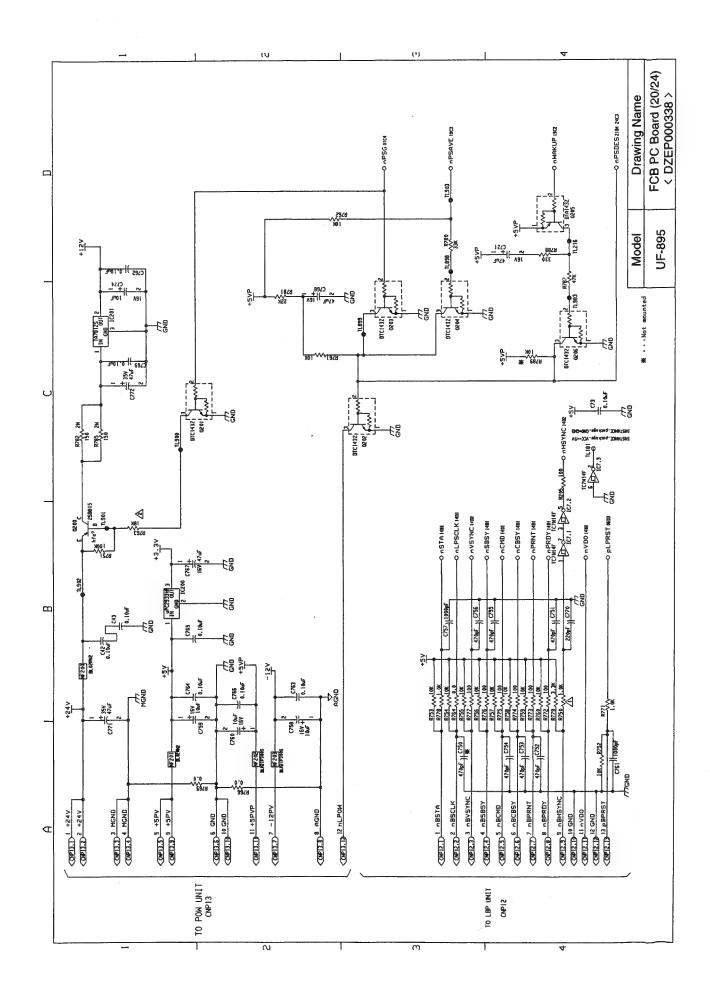


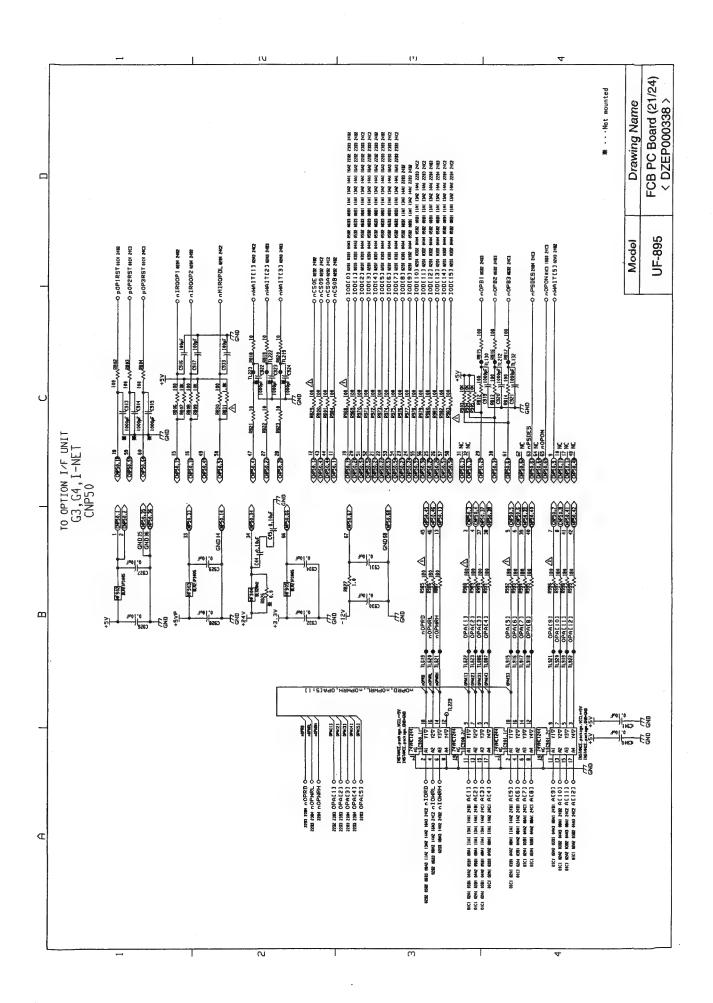


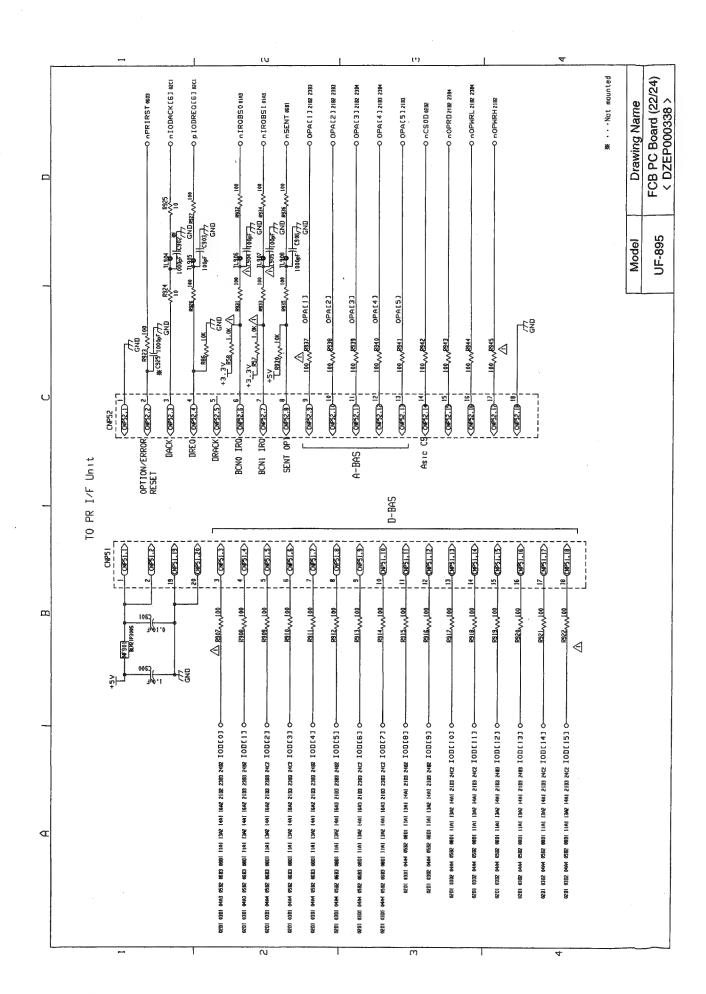


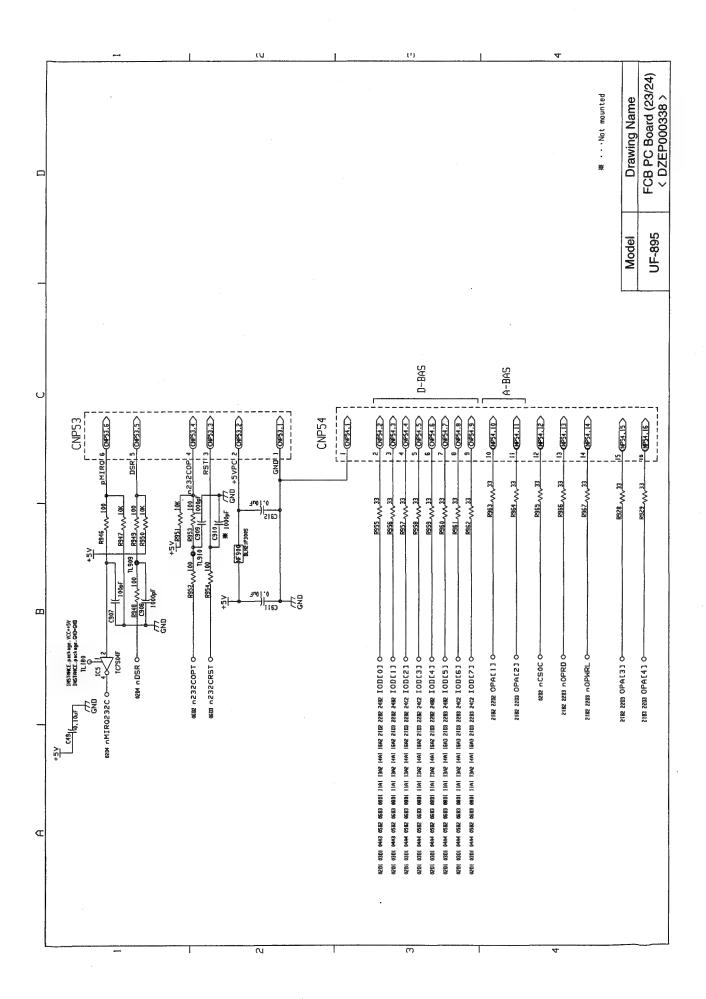


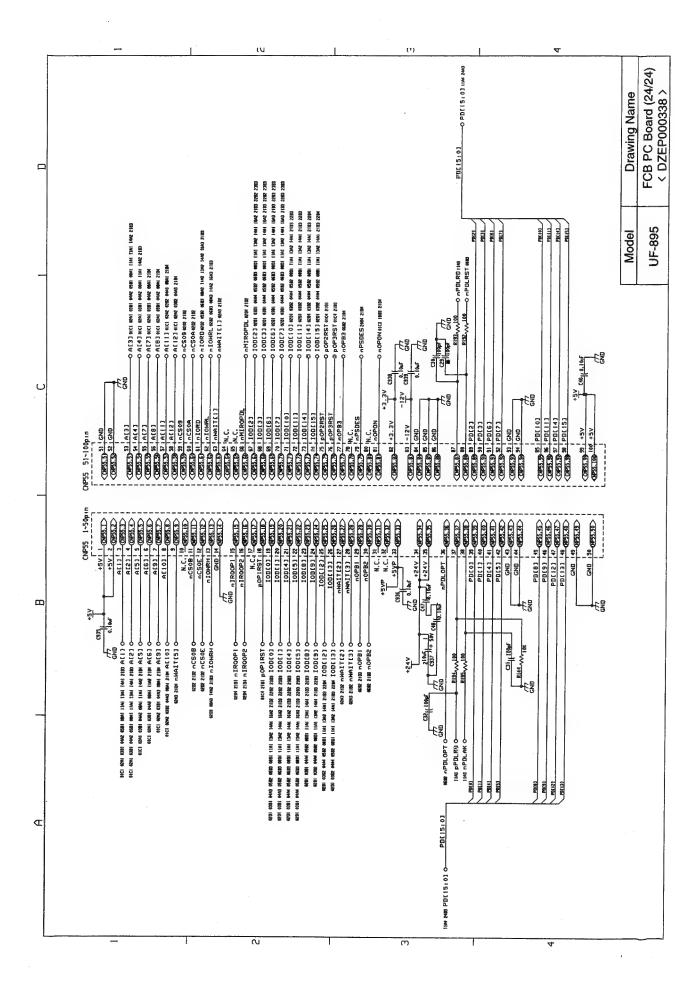




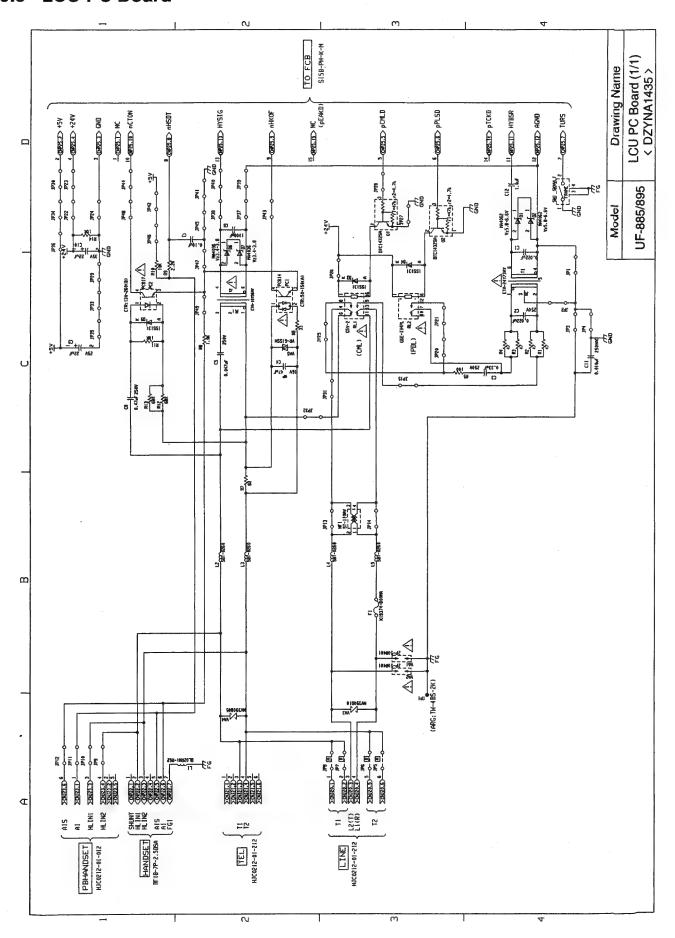




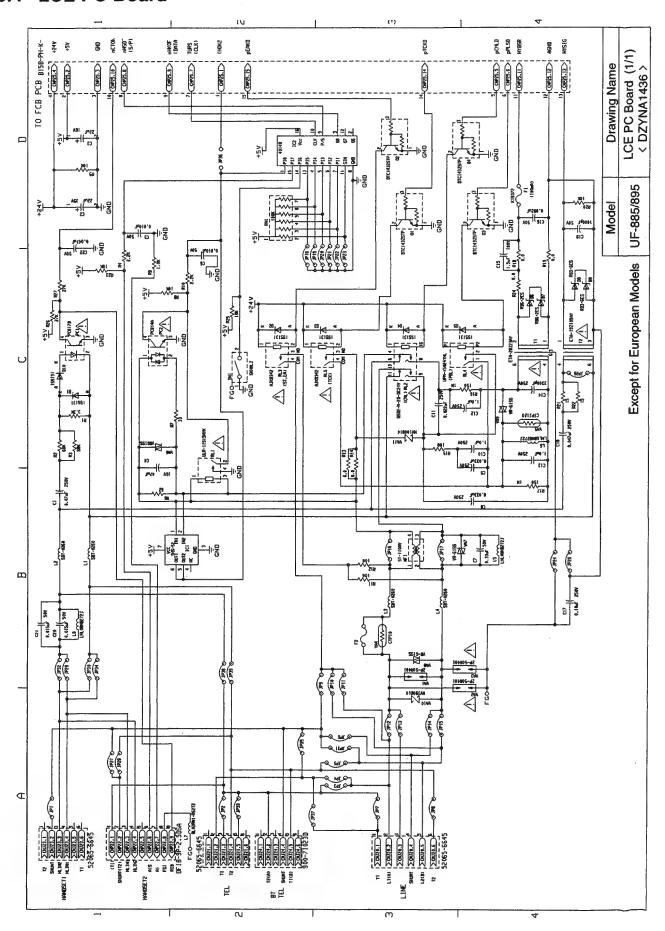


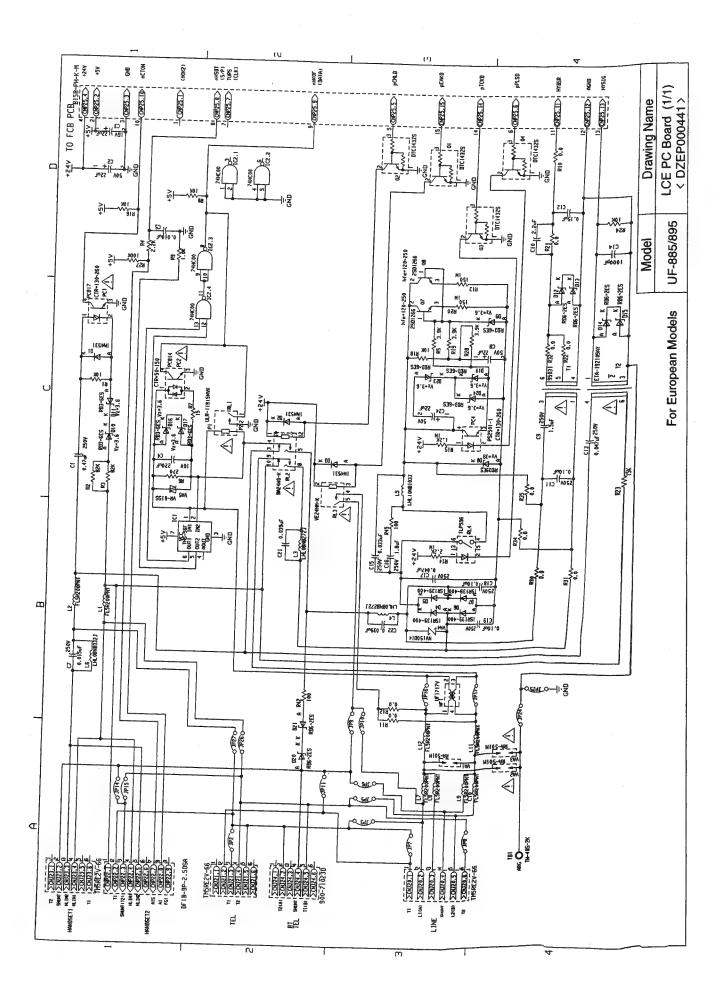


10.3 LCU PC Board

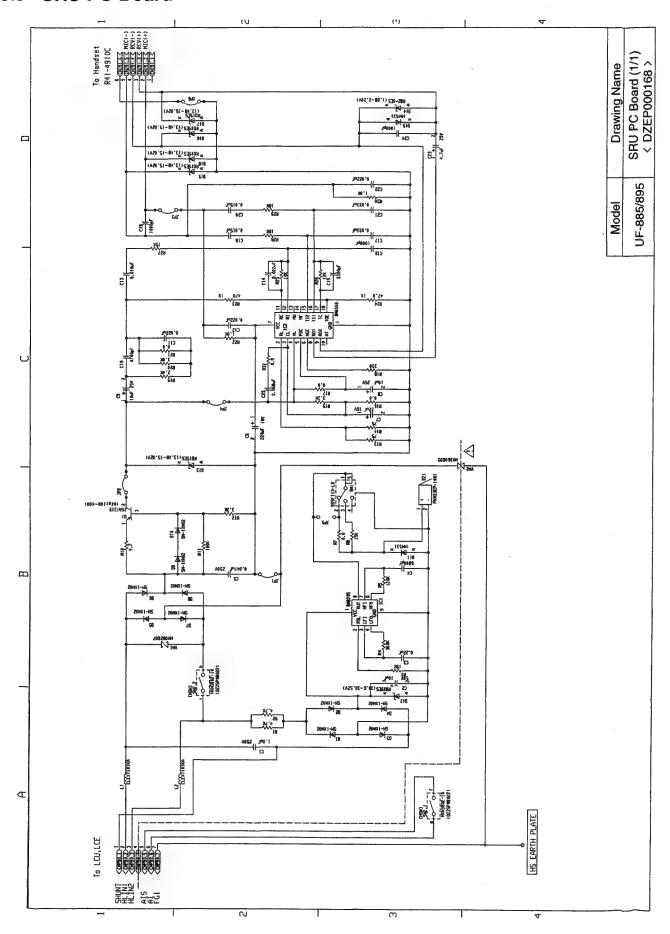


10.4 LCE PC Board

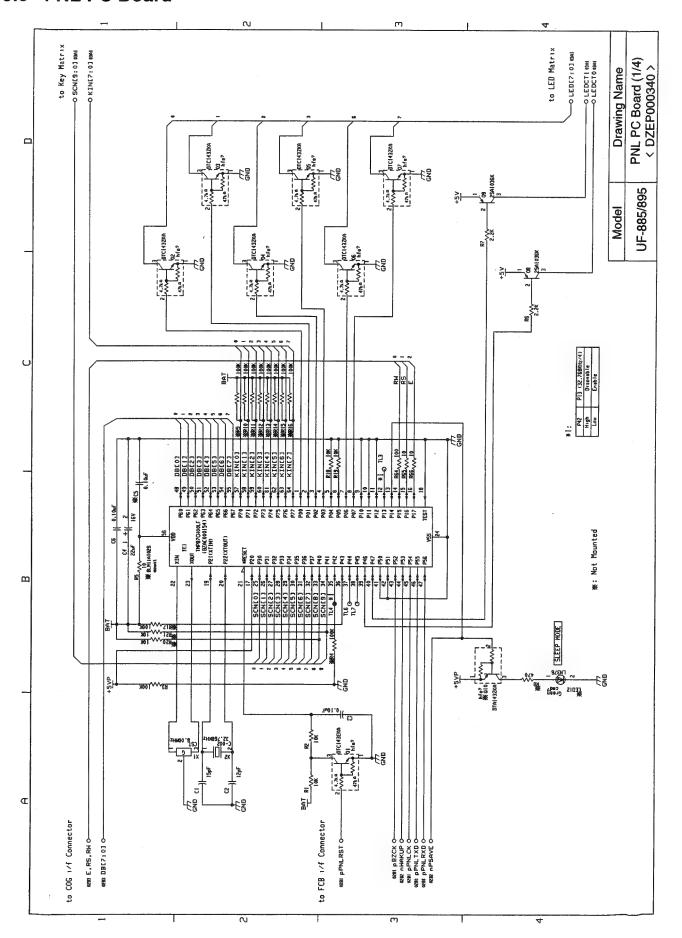


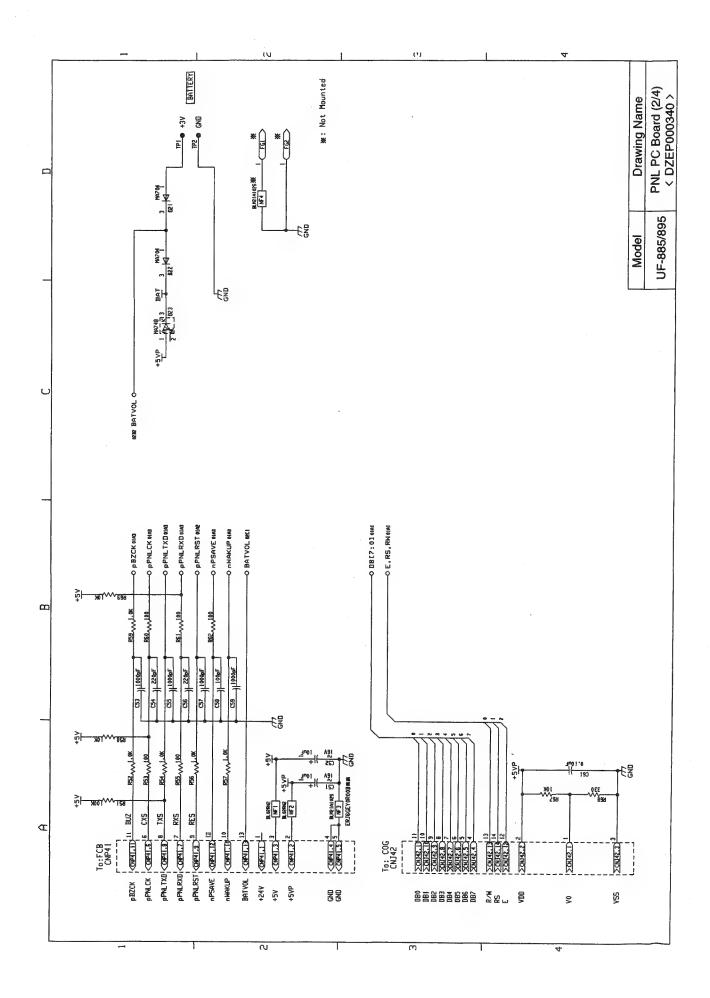


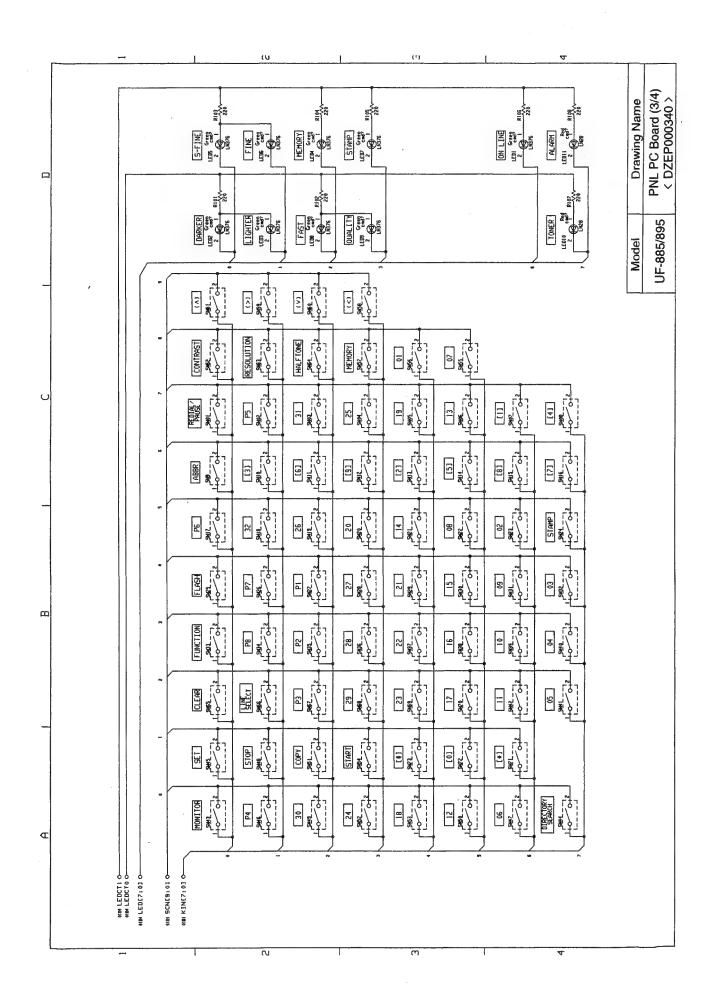
10.5 SRU PC Board

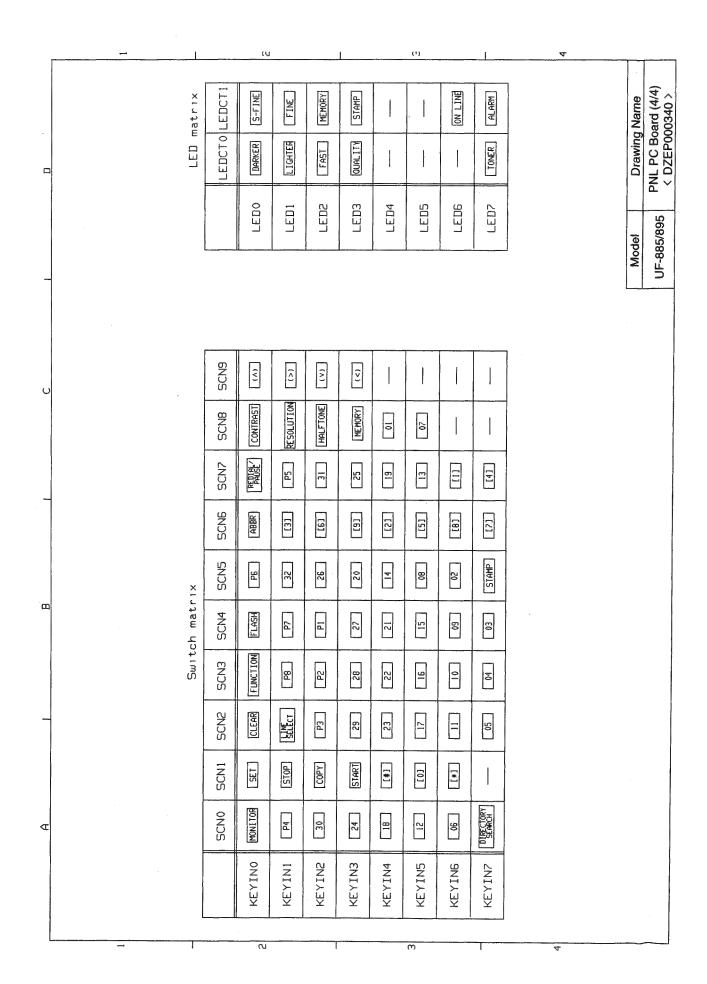


10.6 PNL PC Board

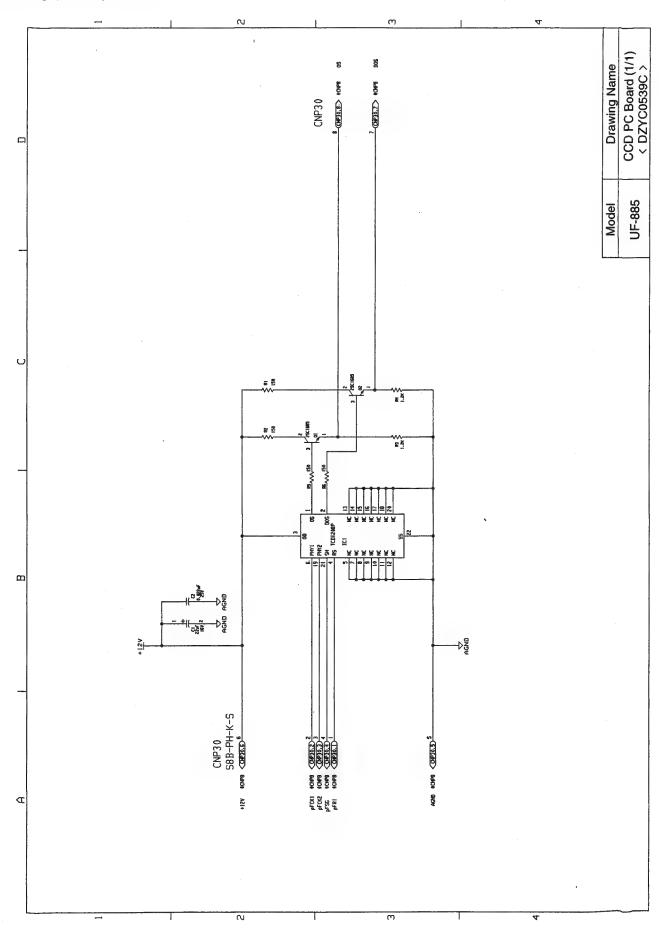


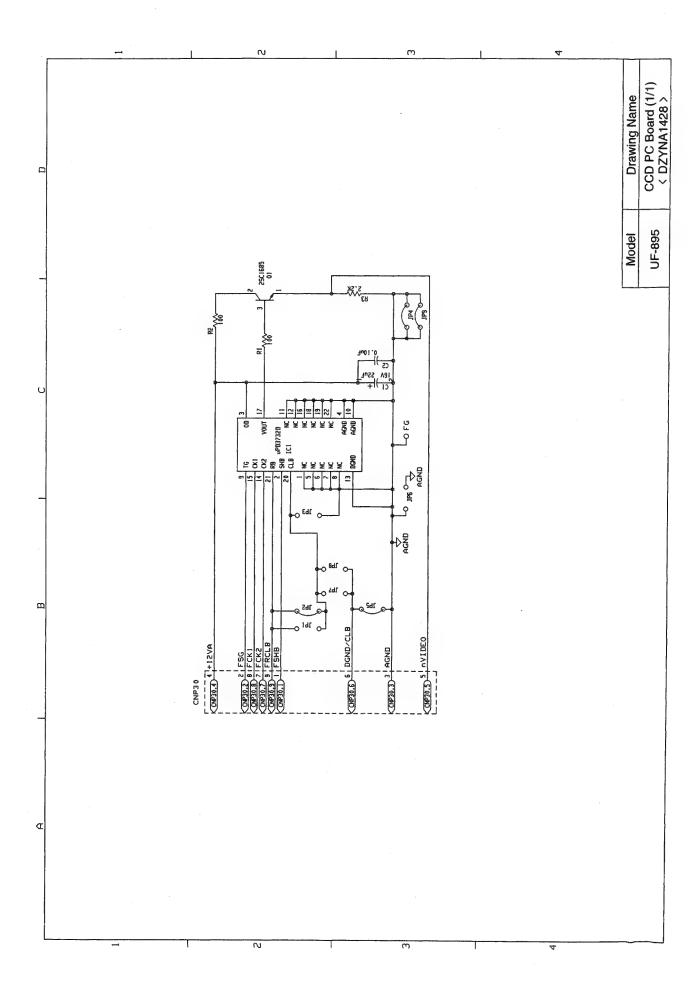




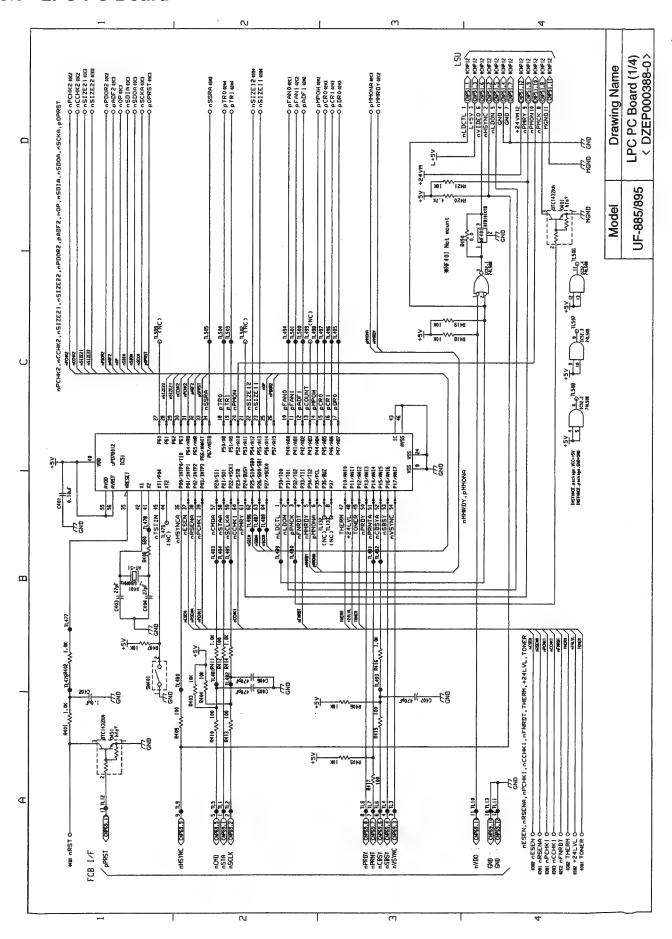


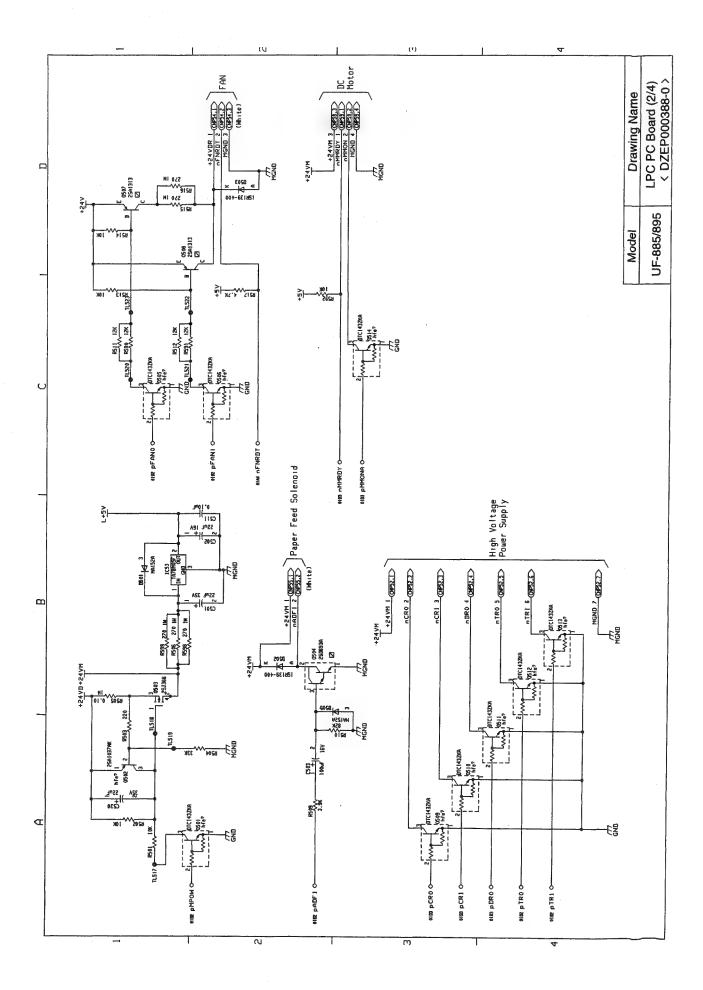
10.7 CCD PC Board

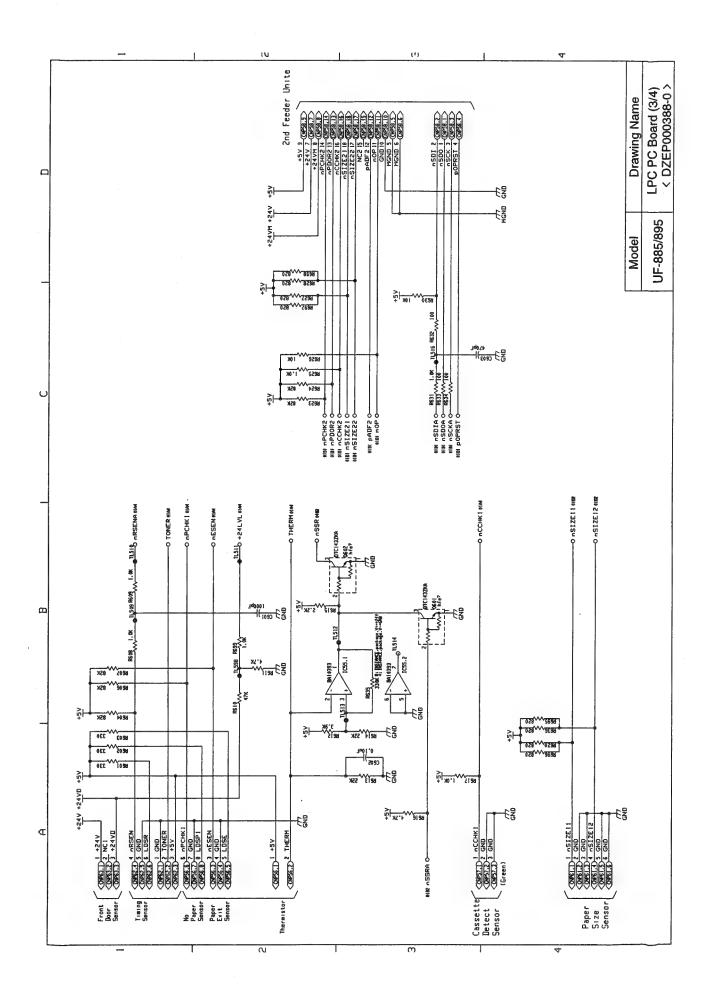


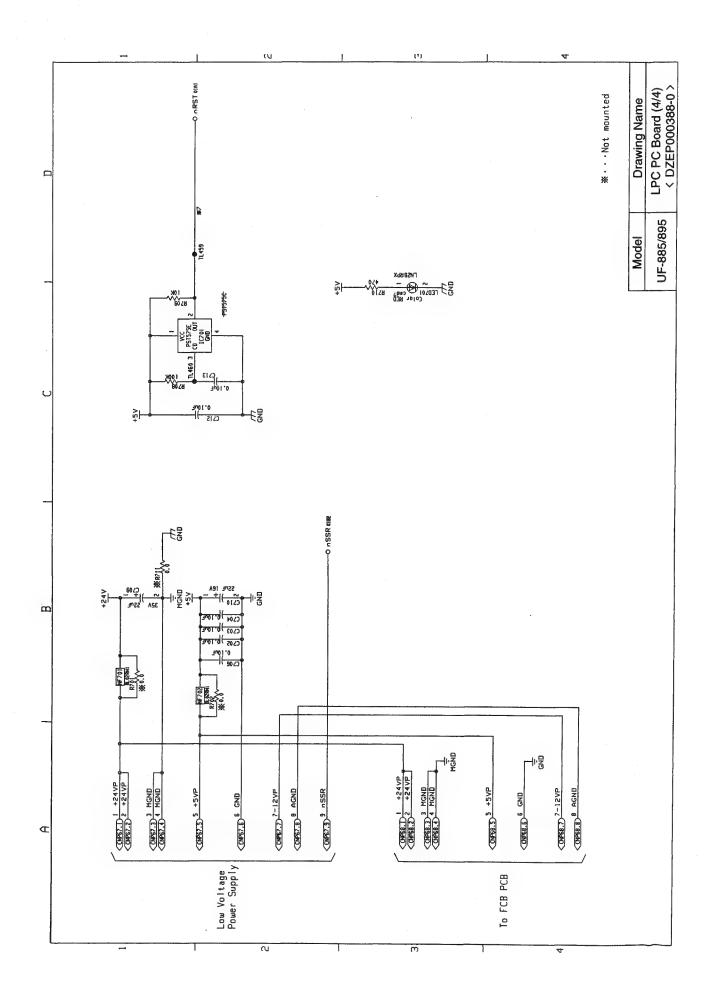


10.8 LPC PC Board

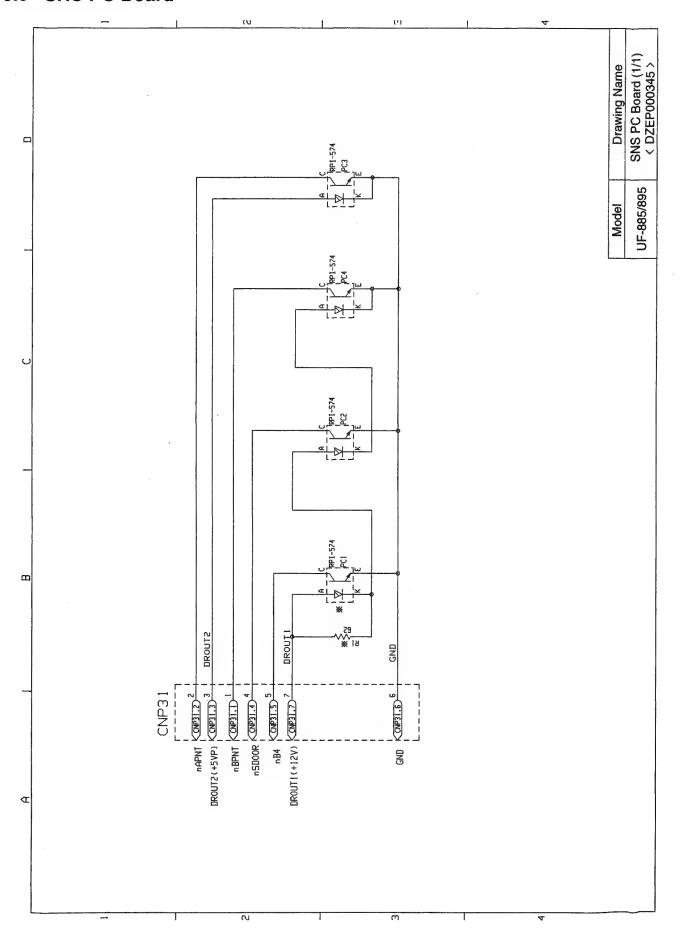




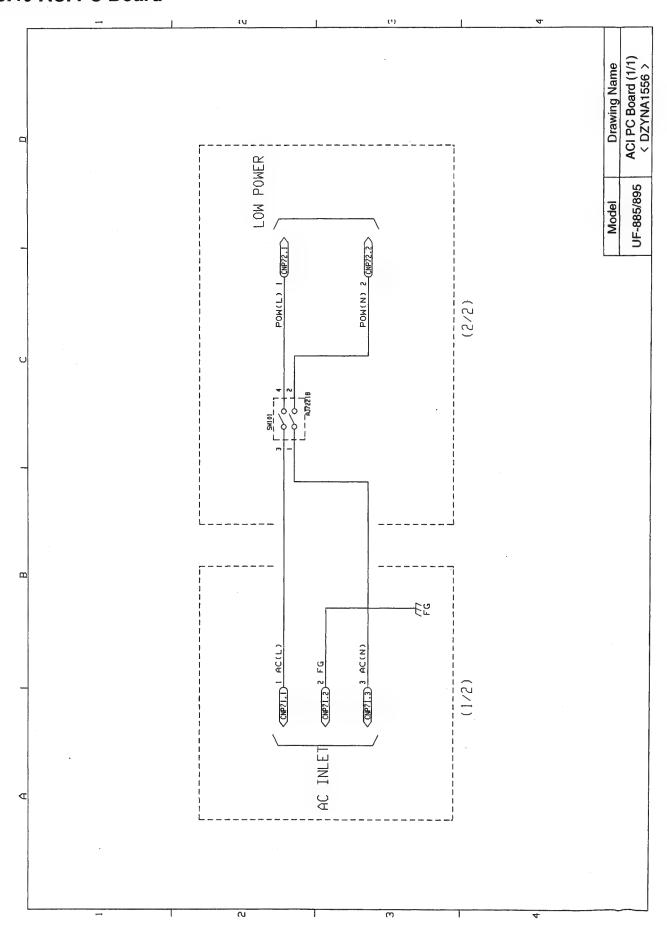




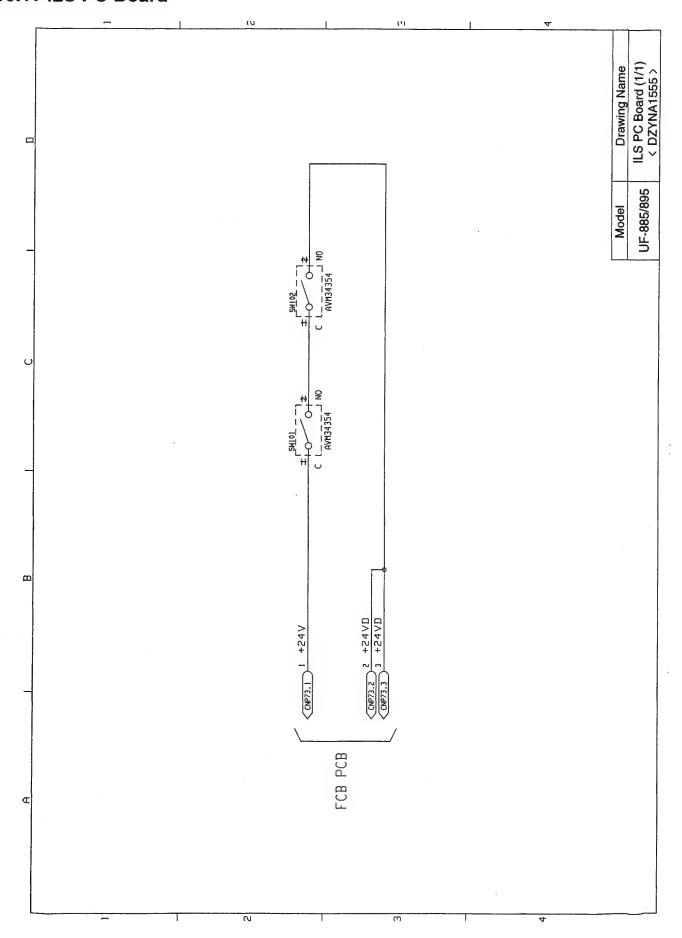
10.9 SNS PC Board



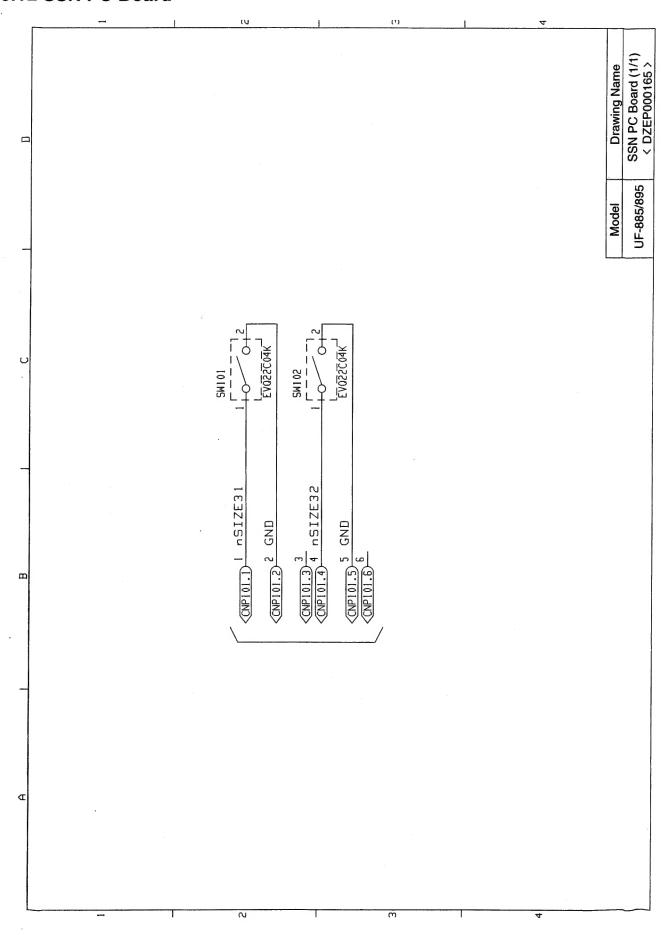
10.10 ACI PC Board



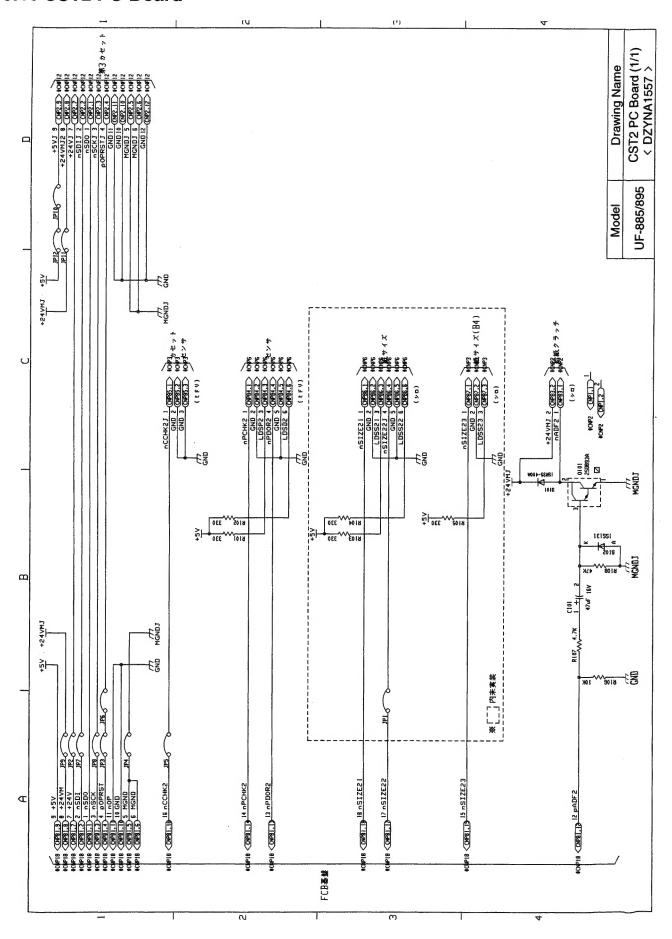
10.11 ILS PC Board



10.12 SSN PC Board



10.13 CST2 PC Board



10.14 CST3 PC Board

